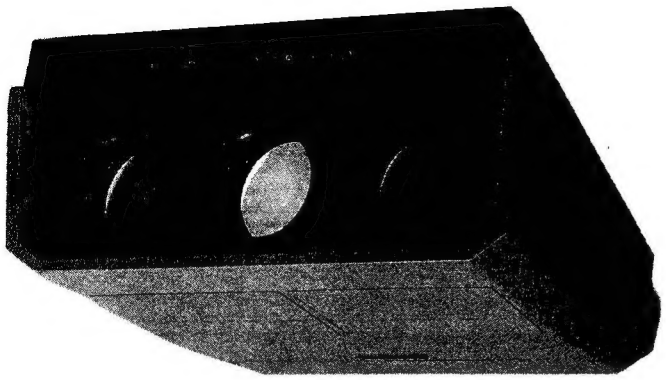
ORDER NO. VED9111081C2

Service Manual

Colour Video Projector

PT-B1010E/EF

chassis No. Q14



The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.

Specifications

Power supply
220–240V~, 50/60Hz
(240V U.K. Only)

Power consumption
365W (at remote control standby: 5W)

Projection tubes
7 inch high-luminance electromagnetic-focusing projection tubes (R, G, B)

Lenses
F 1.09, f 136 chromatic aberration correcting lenses

Luminance output
700 lumens

Horizontal resolution
RGB input: 1,100 TV lines, band width of 30MHz
Video input: 800 TV lines

Speaker output
1.5W (EIAJ)

Screen size
203.2-304.8cm (80-120 inches)

Horizontal frequency
RGB signals: 15.75kHz/15.625kHz
Video signals: 15.75kHz/15.625kHz

Vertical frequency
50/60Hz

Operating ambient temperature
–5°~35°C (23°~95°F)

Operating ambient humidity
20%~80%

S-video input level
Y signal: 1Vp-p
C signal: 0.286Vp-p
Mini DIN 4 pin thread type

Line input/output level
1Vp-p, 75Ω or high-impedance, BNC connector

RGB input level
R, G, B: 0.7Vp-p, 75Ω
H. H/V: 0.3~4V, 75Ω } BNC connector
V: 0.3~4V, 75Ω

Audio input level
0.5Vrms

Remote control input 1 terminal
25-pin D-type connector for remote control

Dimensions
Width: 60.6cm (23 7/8 inches)
Depth: 76.5cm (30 1/8 inches)
Hight: 30.5cm (12 inches)

Weight
49kg (108.0lbs)

Accessories
Remote control: 1pc.

Power supply	3V DC
Operable distance	7m (23ft) (in front of the receiver)
Weight	200g (0.44lbs)

Batteries (AA SUM-3): 2pcs.
Remote control receiver box: 1pc.
Cable for remote control receiver box 5m (16.4ft): 1pc.
S-video/BNC conversion adaptors: 1 pack (2pcs.)
Holding plate kit: 1 kit
Power cord: TSX1433
TSX3105 (U.K. Only)

Specifications are subject to change without notice.
Weight and dimensions shown are approximate.

Panasonic

Contents

Features

1 A Multi-function system equipped with convenient terminals and a signal-switching function
Because the video projector is equipped with S-video input and video signal input/output terminals, and with an S-VIDEO/LINE/RGB signal switching function, it is compatible with a wide range of different systems. Furthermore, there is also a remote terminal which allows remote control.

2 Four different formats (NTSC, M-NTSC, PAL, and SECAM) of video signals can be input.
The video projector accepts input of each type of video signal format, NTSC, M-NTSC, PAL, and SECAM, including S-video signals.

3 High-luminance, high-quality picture
Newly developed 7-inch high-luminance electromagnetic-focusing projection tubes and double-focus chromatic aberration correcting lenses are combined using direct optical coupling. Additional technology has been included for a high-luminance, high-quality picture, such as a wide bandwidth video circuit, a high-voltage stabilizing circuit, and an electromagnetic-focusing correction circuit. As a result, a luminance of 700 lumens of light output (at white peak) and a resolution of 1100 television lines (15.625 kHz) during RGB signal input and 800 television lines during video signal input have been achieved, making it possible to enjoy a beautifully clear picture.

4 Easy-to-use compact remote control
The remote control is equipped with a full range of functions, even though it is the same compact size as a conventional television remote control. Installation adjustments, including the digital convergence and three-stage colour temperature, can be set independently for each type of signal, S-video, video, and RGB, and all day-to-day operations can also be performed using the remote control. In addition, a separate remote control receiver box which can be installed in an easy to operate location is also included.

5 On-screen display function
When an operation button is pressed, that function is displayed on-screen, allowing you to visually confirm that the operation is correct.

6 A digital convergence function greatly improves adjustment precision.
The inclusion of a digital convergence circuit and a circuit which generates a crosshatch pattern for making adjustments makes it possible to adjust for each signal up to every corner of the screen. Furthermore, because it is possible to store the adjusted convergence in the memory, the optimum convergence can be reproduced for each input signal.

Safety Precautions

GENERAL GUIDELINES

1. It is advisable to use an isolation transformer in the AC line supply before servicing this model.
2. When servicing observe the original lead dress, especially in the high voltage circuit. In case of a short circuit, replace every part which has overheated.
3. After servicing observe that all protective devices such as insulation barriers, fish paper, shields, isolation networks and fuses are properly installed.
4. Before turning the receiver on, the resistance between the B+ line and chassis ground should be checked. Connect the ⊖ side of an ohmmeter to the B+ line and the ⊕ side to chassis ground.
   Each line should have more resistance than specified, as follows:

B+ (B−) Line	Minimum Resistance	
125V	20kΩ	P1-P.W. board
*−170V	200kΩ	P1-P.W. board
30V	500Ω	P2-P.W. board
15V	500Ω	P2-P.W. board
15V	50Ω	P2-P.W. board
10V	3Ω	P2-P.W. board
* −15V	500Ω	P2-P.W. board
* −30V	200Ω	P2-P.W. board
220V	30kΩ	P3-P.W. board
120V	5kΩ	P3-P.W. board
80V	10kΩ	P3-P.W. board
9V	3kΩ	P3-P.W. board
9V	3kΩ	P3-P.W. board
5V	300Ω	Remote control Power source

* −Side to ground

5. If the set is not intended to be used for a long time, the power cord should be unplugged from the AC line outlet.
6. Potentials, as high as 32.5 kV are present when this set is in operation. Removal of the covers involves the danger of a shock hazard from the set's power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high-voltage equipment.
   Always discharge the anode of the projection tube to the set chassis before handling the tube.
7. After servicing, make the following leakage current checks to prevent a shock hazard.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two plug prongs.
2. Turn on the set.
3. Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metallic part such as screwheads, input terminals, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be more than 4MΩ. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

LEAKAGE CURRENT HOT CHECK (See Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer during this check.
2. Connect a 1.5kΩ 10 watts resistor in parallel with a 0.15μF capacitor between each exposed metallic part and an earth. Use a good earth, for example, a water pipe.
3. Use a high impedance AC voltage meter (VTVM) to measure the potential across the resistor.
4. Move the resistor connection to each exposed metallic part and measure the voltage present.
5. Check that any potential does not exceed 0.75 volt RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used in the above hot check, in which case any current measured must not exceed 1/2 milliamp. In case any measurement is out of the limits specified, there is a possibility of a shock hazard and the set should be repaired and rechecked before it is returned to the customer.

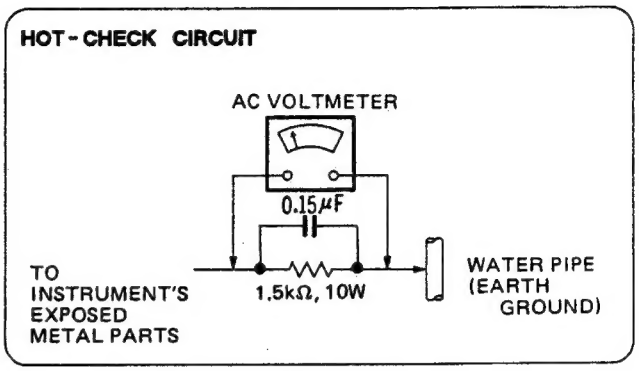


Fig. 1

X-RADIATION

WARNING: The potential source of X-Radiation in the colour video projector is the High Voltage section and the projection tubes.

NOTE: It is important to use an accurate, periodically, calibrated high voltage meter.

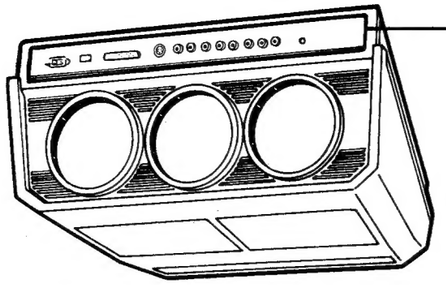
1. Turn the Brightness control fully counterclockwise.
2. Measure the High Voltage. The high voltage meter should indicate 32 kV ± 0.5 kV. If the upper meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. (Refer to high voltage adjustment in the manual.)
3. To prevent an X-Radiation possibility, it is essential to use the specified projection tube only.
4. To prevent exposure to X-Radiation, the projection tube shield must be kept in place with power applied to the set.

WARNING: When using a projection tube test jig for service, ensure that jig is capable of handling 32.5 kV without causing X-Radiation.

Operating Instructions

Location of the colour video projector

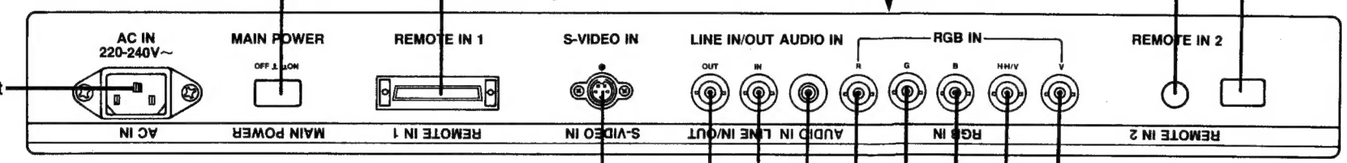
Front View



Remote control input 1 terminal
This terminal is used for remote control.
For details, refer to "About the remote control input 1 terminal".

Main power switch
Press: (▬ ON)
The main power supply of the video projector will be switched on, and the main power indication lamp of the rear side will light up red.

Press again: (■ OFF)
The main power supply will be switched off, and the main power indication lamp will go out.



Power supply socket

S-video input terminal
This terminal is for connection of the YC signals (signals in which the luminance signal and the chrominance signal are separated) from a VTR or other device equipped with an S-video terminal.
By selecting the "S-VIDEO" input selector button either inside the control compartment of the main unit or on the remote control, the video signal from this terminal can be received.

Line output terminal
This terminal outputs the signal connected to the line input terminal without making any changes in the signal.

Line input terminal
This terminal is for the connection of a standard video signal.
By selecting the "LINE" input selector button either inside the control compartment of the main unit or on the remote control, the video signal from this terminal can be received.

Remote control input 2 terminal
This terminal is used for connection of the included 5m (16.4 ft) cable and remote control receiver box.
Install the remote control receiver box connected to this terminal in a location where it will allow easy operation of the remote control.

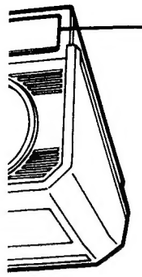
Remote control receiver window
The included remote control is operated by aiming it either at this window or at the remote control receiver box connected to the remote control input 2 terminal.

Vertical sync input terminal
This terminal is for connection of the vertical sync signal for the analog RGB signals.

Horizontal sync · Composite sync input (H.H/V IN) terminal
This terminal is for the connection of the horizontal sync signal or the composite sync signal for the analog RGB signals.

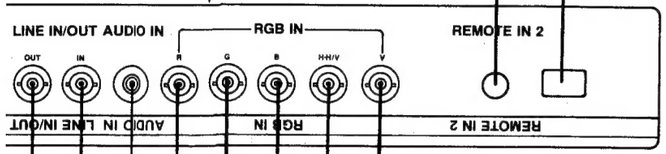
RGB input terminal
This terminal is for the connection of the analog RGB signals.

Audio input terminal
This terminal is for the connection of the audio input signal.
No matter which mode the input selector buttons either inside the control compartment of the main unit or on the remote control are set to, the audio signal input to this terminal will be output from the monitor speaker.



Remote control input 2 terminal
This terminal is used for connection of the included 5m (16.4 ft) cable and remote control receiver box.
Install the remote control receiver box connected to this terminal in a location where it will allow easy operation of the remote control.

Remote control receiver window
The included remote control is operated by aiming it either at this window or at the remote control receiver box connected to the remote control input 2 terminal.



Vertical sync input terminal
This terminal is for connection of the vertical sync signal for the analog RGB signals.

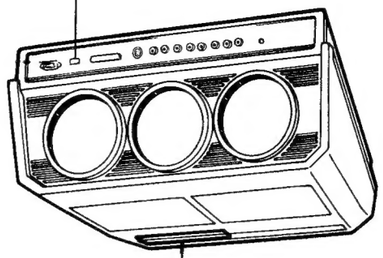
Horizontal sync · Composite sync input (H.H/V IN) terminal
This terminal is for the connection of the horizontal sync signal or the composite sync signal for the analog RGB signals.

RGB input terminal
This terminal is for the connection of the analog RGB signals.

Audio input terminal
This terminal is for the connection of the audio input signal.
No matter which mode the input selector buttons either inside the control compartment of the main unit or on the remote control are set to, the audio signal input to this terminal will be output from the monitor speaker.

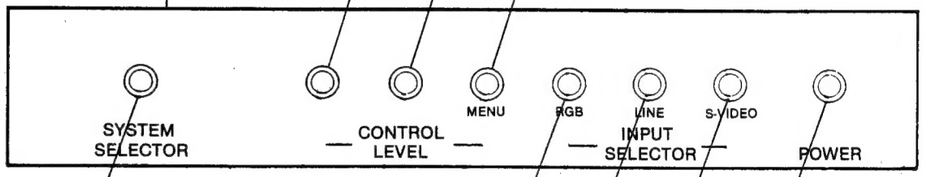
Control Compartment

Main power switch



Control level adjustment buttons
These buttons are used to adjust the items displayed using the menu selector button and also to adjust the volume of the monitor speaker which is built into the video projector.

Menu selector button
(colour, tint, bright, picture, sharpness)
When the button is pressed, the colour adjustment mode will be displayed on-screen, and each time the button is pressed again, the on-screen display of the adjustment mode will change.



System selector button
Each time the button is pressed, the system format will change in the order "AUTO" → "NTSC" → "M-NTSC" → "PAL" → "SECAM", and the name of the system format will be displayed on-screen.

Power button
The power supply of the video projector will be switched on, and the main power indication lamp will change from red to green. The video projector will begin operation, and operation of the various buttons is possible.

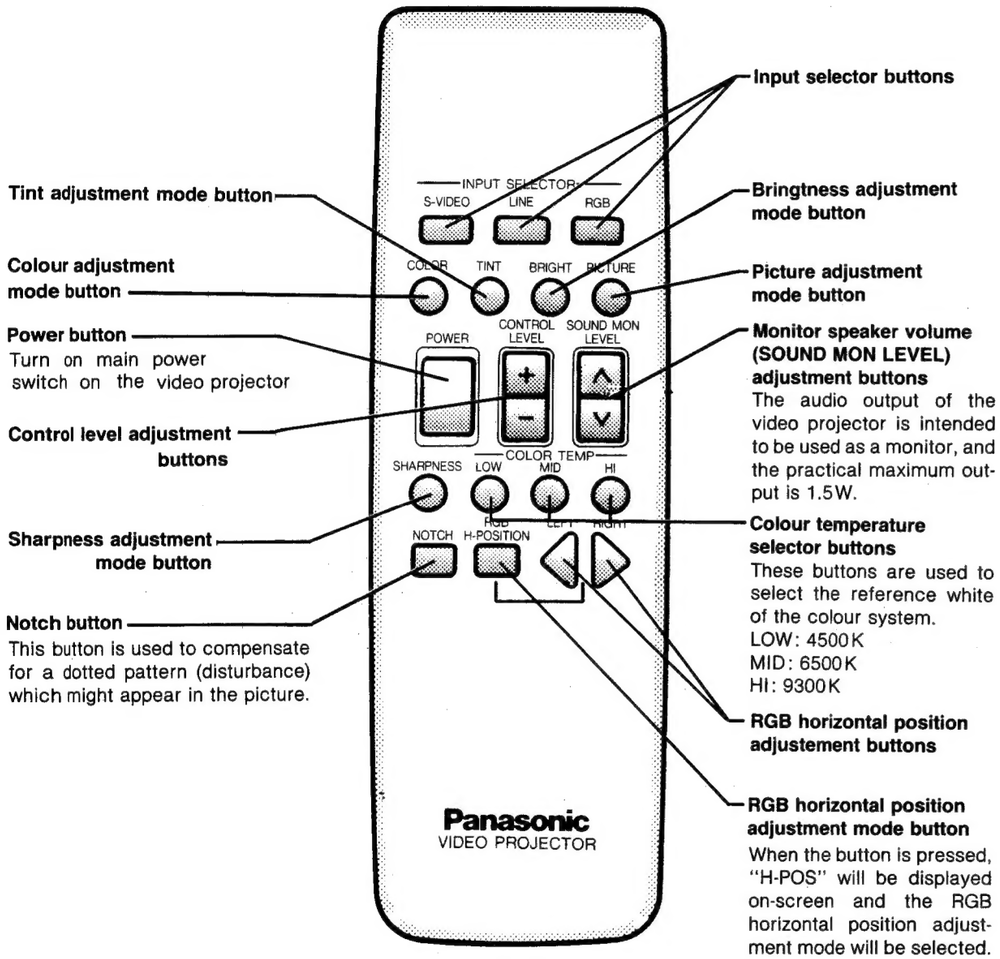
Input Selector buttons
These buttons are used to select the signal to be input to the video projector.

Location of the remote control

Front View

The controls for primarily for used for installation adjustments are located on the rear of the remote control.
At first press the power button for adjustment.

Controls on the front of the remote control



Input selector buttons

Tint adjustment mode button

Bringtness adjustment mode button

Colour adjustment mode button

Picture adjustment mode button

Power button
Turn on main power switch on the video projector

Monitor speaker volume (SOUND MON LEVEL) adjustment buttons
The audio output of the video projector is intended to be used as a monitor, and the practical maximum output is 1.5W.

Control level adjustment buttons

Sharpness adjustment mode button

Colour temperature selector buttons
These buttons are used to select the reference white of the colour system.
LOW: 4500K
MID: 6500K
HI: 9300K

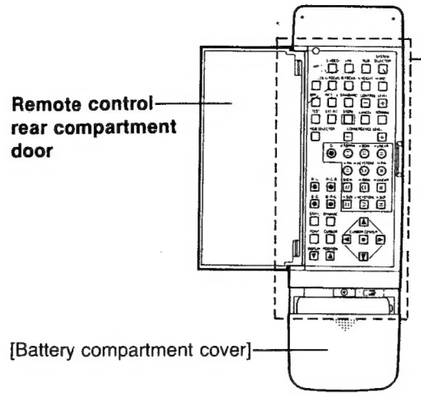
Notch button
This button is used to compensate for a dotted pattern (disturbance) which might appear in the picture.

RGB horizontal position adjustement buttons

RGB horizontal position adjustment mode button
When the button is pressed, "H-POS" will be displayed on-screen and the RGB horizontal position adjustment mode will be selected.
After pressing this button, the RGB horizontal position adjustment buttons can be used to move the center of the image on the screen to the left or right.

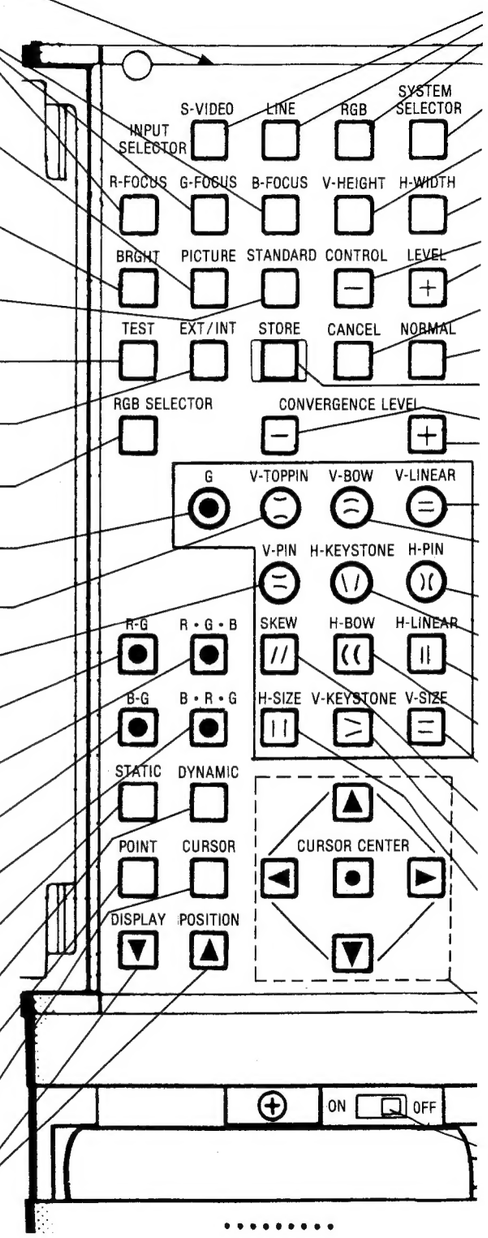
Note: During remote control using the remote control input 1 terminal on the front of the main unit, buttons POWER and INPUT SELECTOR will not function, so operate these controls via the remote control input 1 terminal.

Inside View of rear compartment door



Remote control rear compartment door

[Battery compartment cover]



Electromagnetic focus adjustment mode buttons

Picture adjustment mode and standard setting mode button

Brightness adjustment mode and standard setting mode button

Standard setting button

External/Internal sync Test button

selection button

RGB selector button

G button

Vertical upper pincushion distortion adjustment (V-TOPPIN) designation button

Vertical pincushion distortion adjustment (V-PIN) designation button

R → G button

R → G • B button

B → G button

B → R • G button

Static button

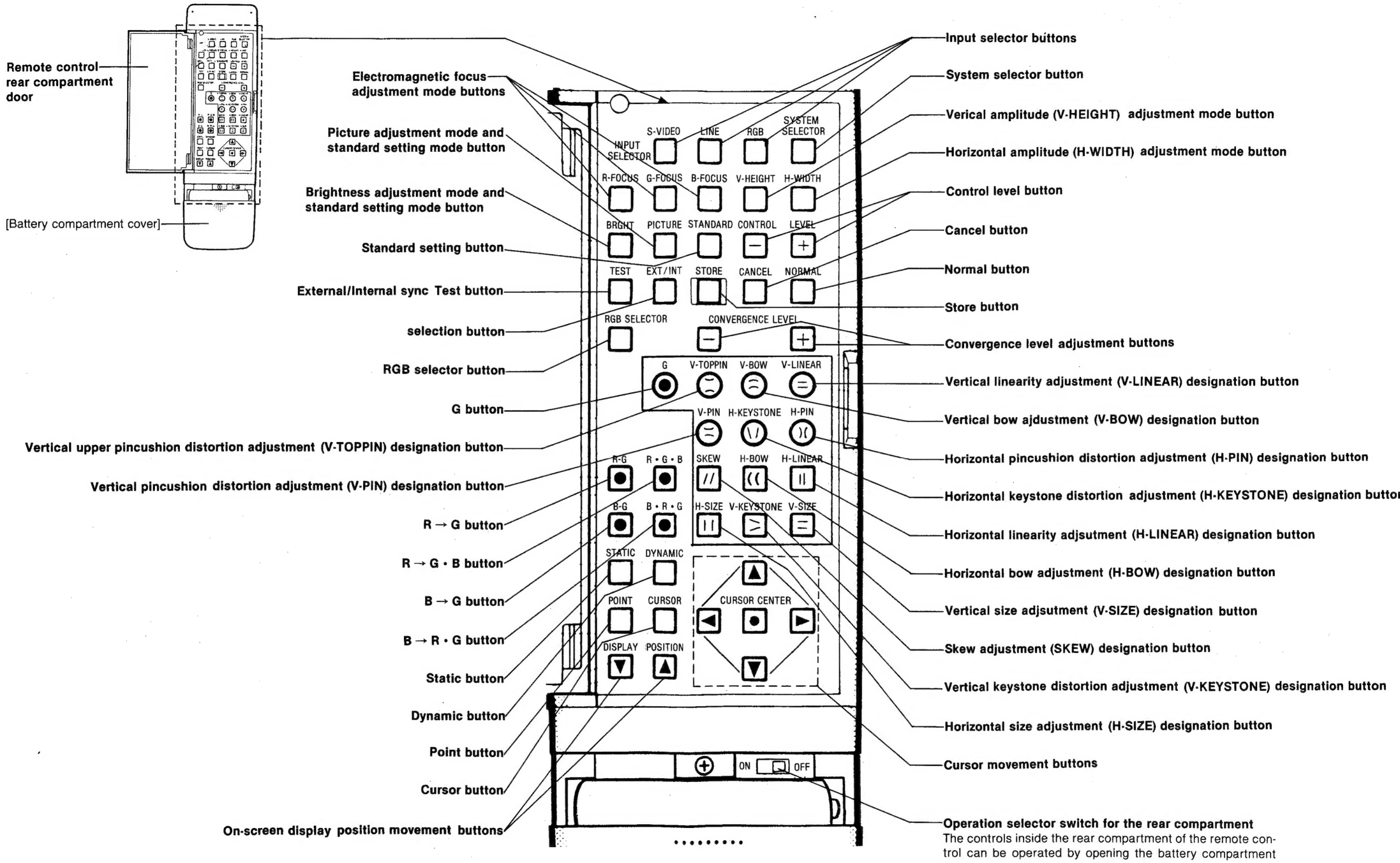
Dynamic button

Point button

Cursor button

On-screen display position movement buttons

Inside View of rear compartment door



Operation selector switch for the rear compartment
The controls inside the rear compartment of the remote control can be operated by opening the battery compartment cover and setting the switch inside the compartment to "ON"

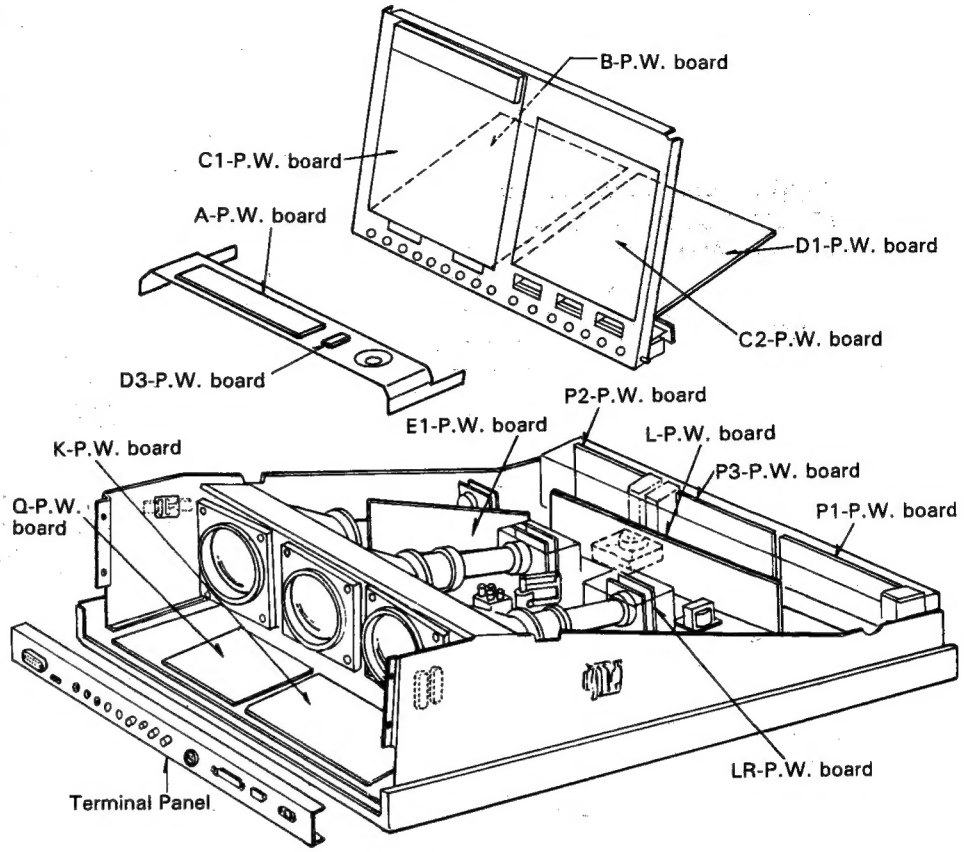
ON OFF

Disassembly Instructions

WARNING:

1. Before disassembly, remove the AC plug from the wall outlet.
2. When turning over a P.C. board to adjust it, be sure to lay on insulating material under it in order to prevent shorting.
3. P.C. boards and wires should not be pulled forcibly, but be handled carefully.
4. Printed boards and connectors should be handled with care-aviod handling them forcibly!

Main Parts Location



Removal of Top cover

1) Open the cover for the control panel.
2) Remove 5 screws Ⓐ as shown in Fig. 1.
3) Then pull the top cover toward the back side of the deck and carefully lift it for removal.

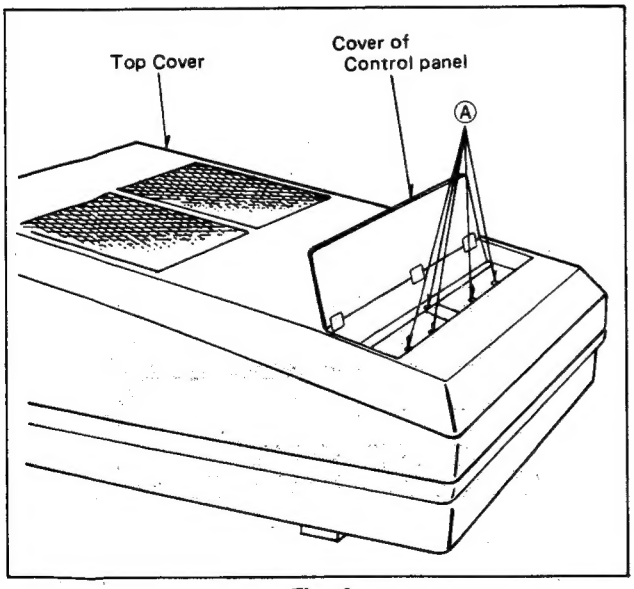


Fig. 1

Removal of Front Panel

1) Remove 6 screws Ⓑ as shown in Fig. 2.
2) Remove 3 screws Ⓒ as shown in Fig. 3.
3) Remove the Front Panel.

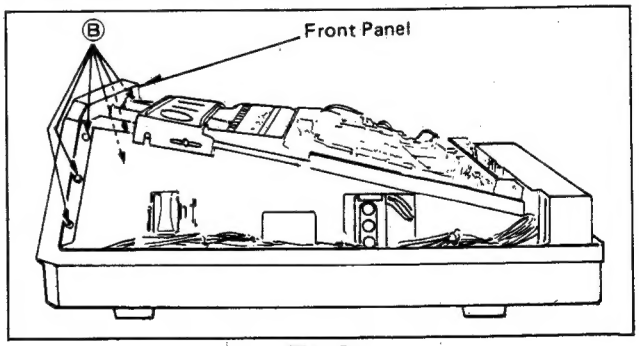


Fig. 2

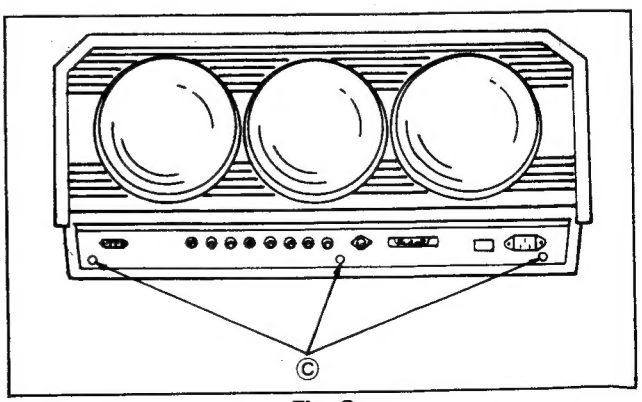


Fig. 3

Removal of P.W. board

1) C1, C2, B and D1-P.W. board

1) Loosen 2 screws Ⓓ counterclockwise by 90° as shown in Fig. 4.
2) Then lift the rear of the chassis as shown in Fig. 5.

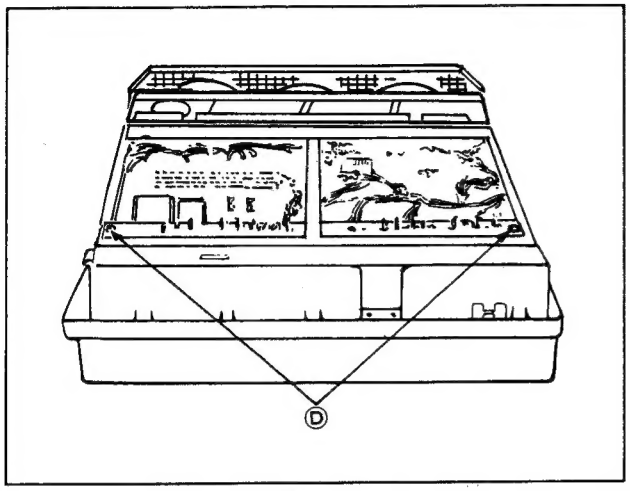


Fig. 4

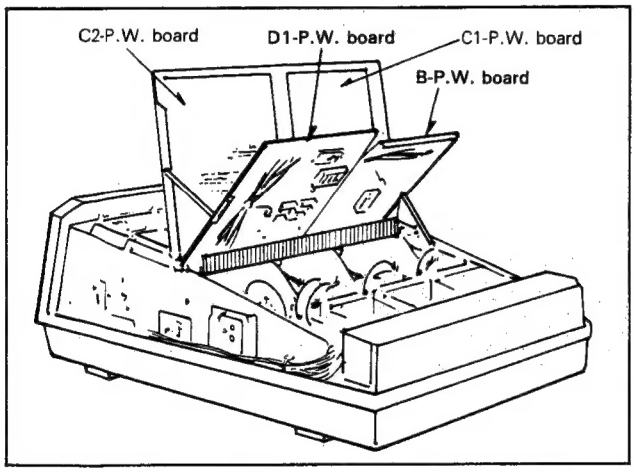


Fig. 6

3) Remove 2 stoppers Ⓔ and 2 claws Ⓕ as shown in Fig. 5.
4) Then open the B-P.W. board as shown in Fig. 6.
5) Remove 2 stoppers Ⓖ and 2 claws Ⓗ as shown in Fig. 5.
6) Then open the D1-P.W. board as shown in Fig. 6.
7) Repair the board at this condition.

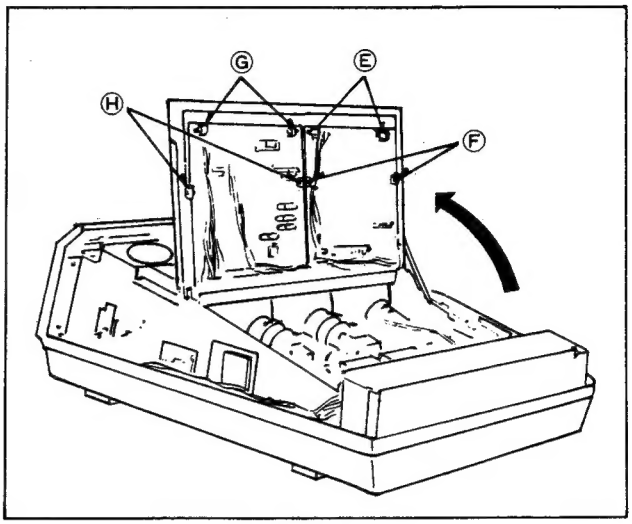


Fig. 5

2) E1-P.W. board

- Remove a screw Ⓘ, and remove the E1-P.W. board fixing metal as shown in Fig. 7.
- Then pull and lift the E1-P.W. board in parallel for removal.

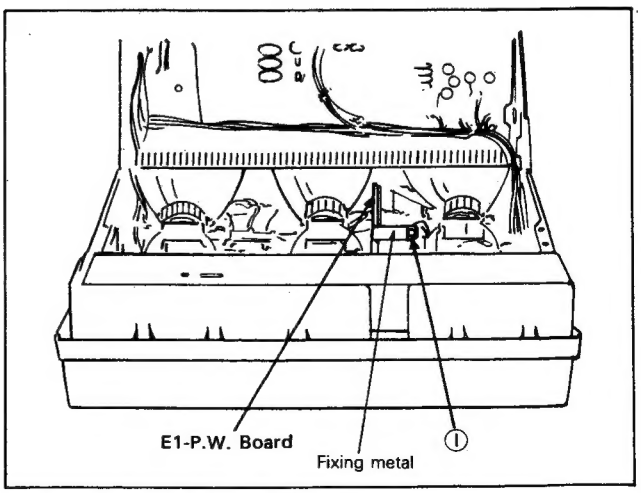


Fig. 7

3) L-P.W. board

- Remove a screw Ⓙ, and remove the fixing angle as shown in Fig. 8.
- Then pull and lift the L-P.W. board in parallel for removal.

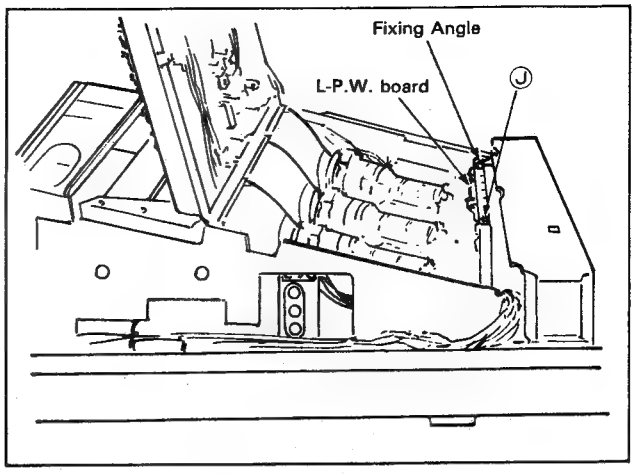


Fig. 8

4) P1, P2 and P3-P.W. boards

1) Remove a wires from 2 clamps Ⓚ.

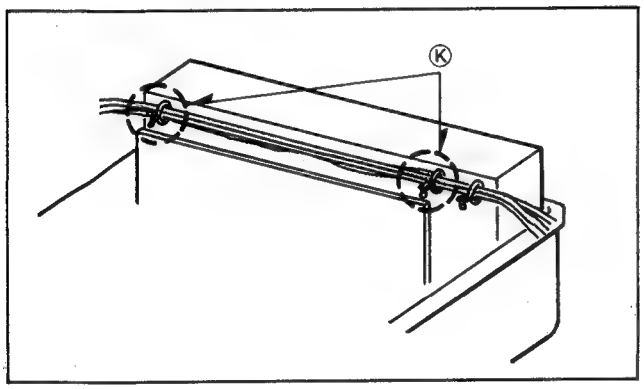


Fig. 9

Note: When assembling P1, P2 and P3-P.W. boards, fix 2 clamps Ⓚ as it was before.

2) Remove 10 screws Ⓛ, and then carefully pull and lift the P1, P2 and P3-P.W. board with angle as shown in Fig. 10.

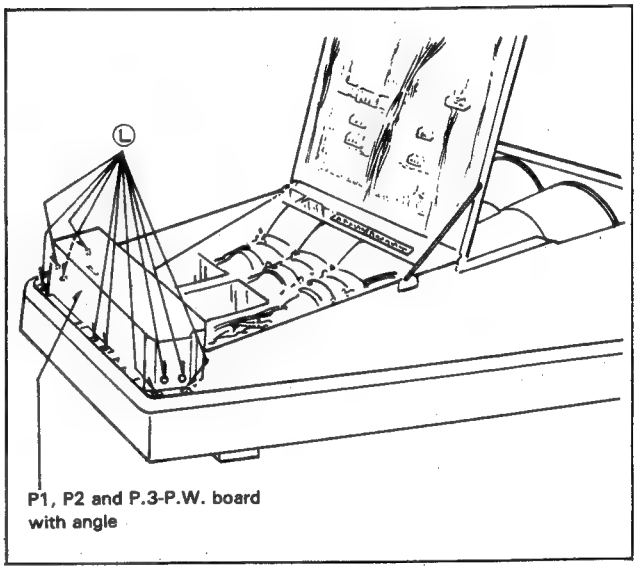


Fig. 10

5) K and Q-P.W. board

1) Remove the front panel.
2) Remove 4 screws Ⓝ as shown in Fig. 11.

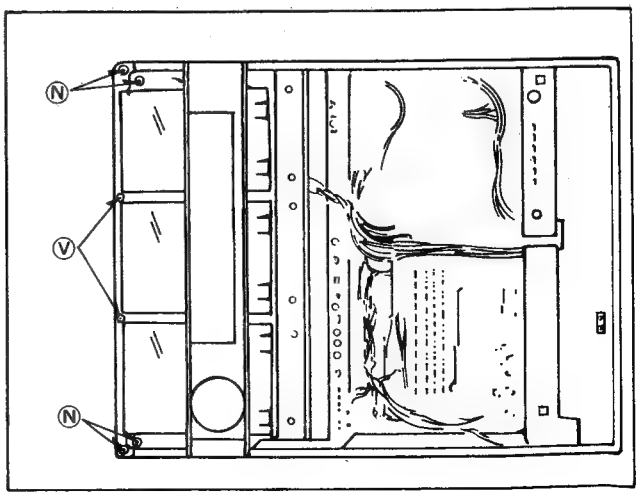


Fig. 11

3) Remove 2 screws Ⓜ, and remove the terminal panel as shown in Fig. 12.
4) Remove 2 screws Ⓞ, and remove the shield cover as shown in Fig. 12.
5) Remove 2 screws Ⓥ, and carefully slide the K and Q-P.W. board case foward as indicated by the arrow in Fig. 11 and Fig. 12.

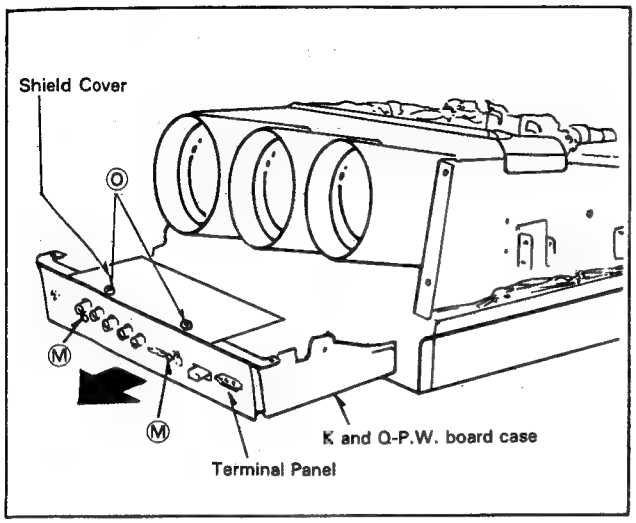


Fig. 12

6) Remove 6 screws Ⓟ, and remove the K-P.W. board as shown in Fig. 13.
7) Remove 4 screws Ⓠ, and remove the Q-P.W. board as shown in Fig. 13.

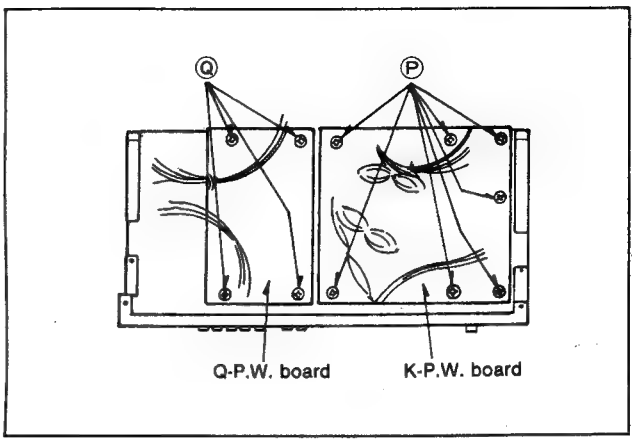


Fig. 13

6) A and D3-P.W. board

1) Loosen 4 screws Ⓡ securing the A-P.W. board bracket.

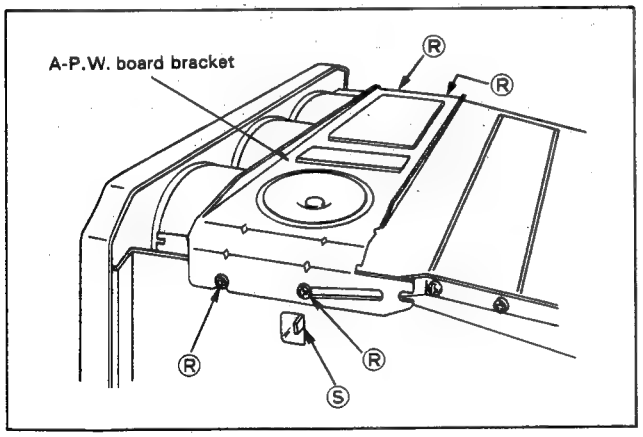


Fig. 14

2) Raise the A-P.W. board bracket, and fit the depression on one end of the bracket onto the hook Ⓢ in the unit.

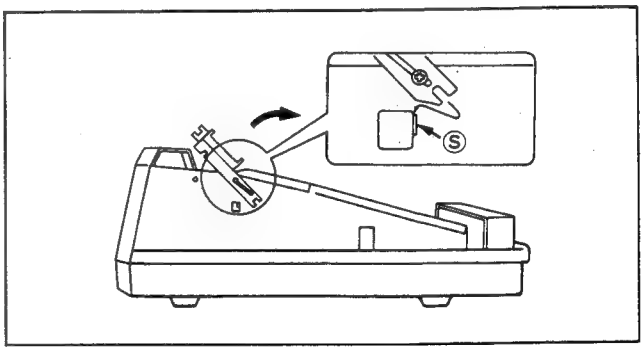


Fig. 15

3) Tighten the 2 screws Ⓣ on the sliding section (if necessary), and securely fasten the A-P.W. board into the unit with the bracket raised.

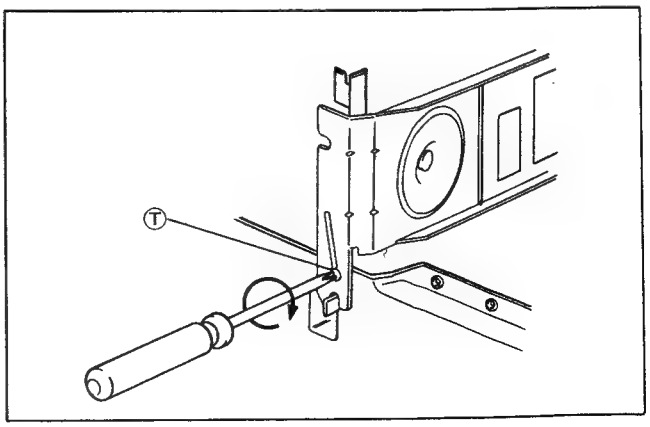


Fig. 16

Removal of Projection Tube with Lens Unit (When Red and Green)

1) Remove the front panel as shown in Fig. 2 and Fig. 3.
2) Lift the rear of the chassis as shown in Fig. 5.
3) Remove 3 screws Ⓤ, and remove the X-radiation shield cover as shown in Fig. 17.
   Remove the anode lead from the high voltage distributor.

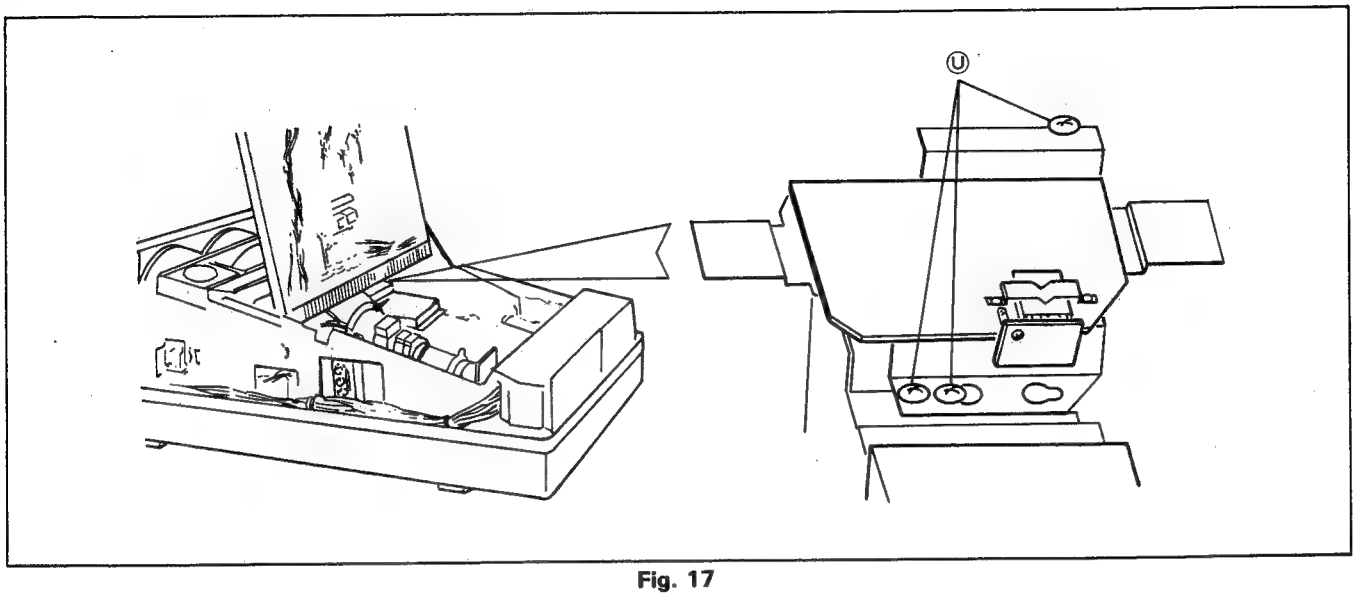


Fig. 17

4) Remove LR-P.W. board.
   Draw out alignment magnet, focus magnet and deflection yoke by loosening their screws as shown in Fig. 18.

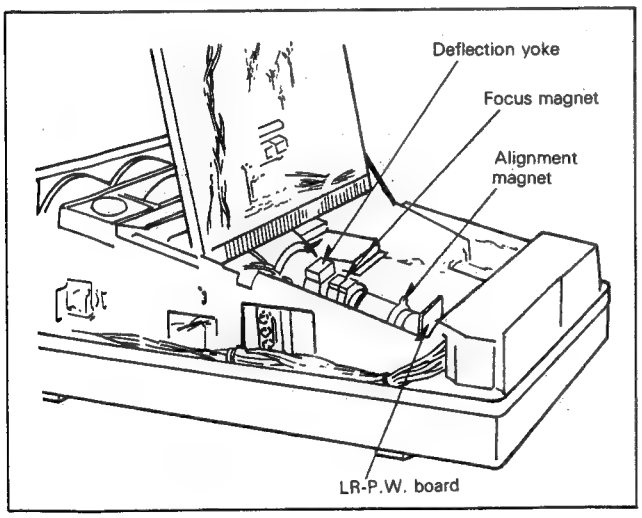


Fig. 18

5) Remove 4 screws Ⓩ as shown in Fig. 19.
   Carefully slide the projection tube with lens unit in the direction of arrow as shown in Fig. 19.

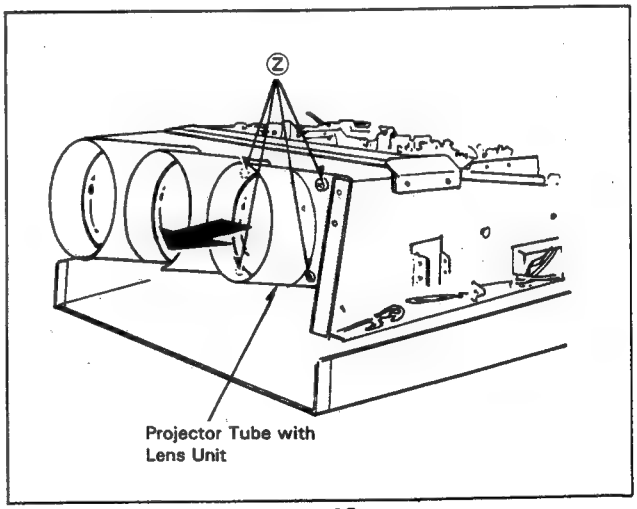


Fig. 19

Cautions for Servicing

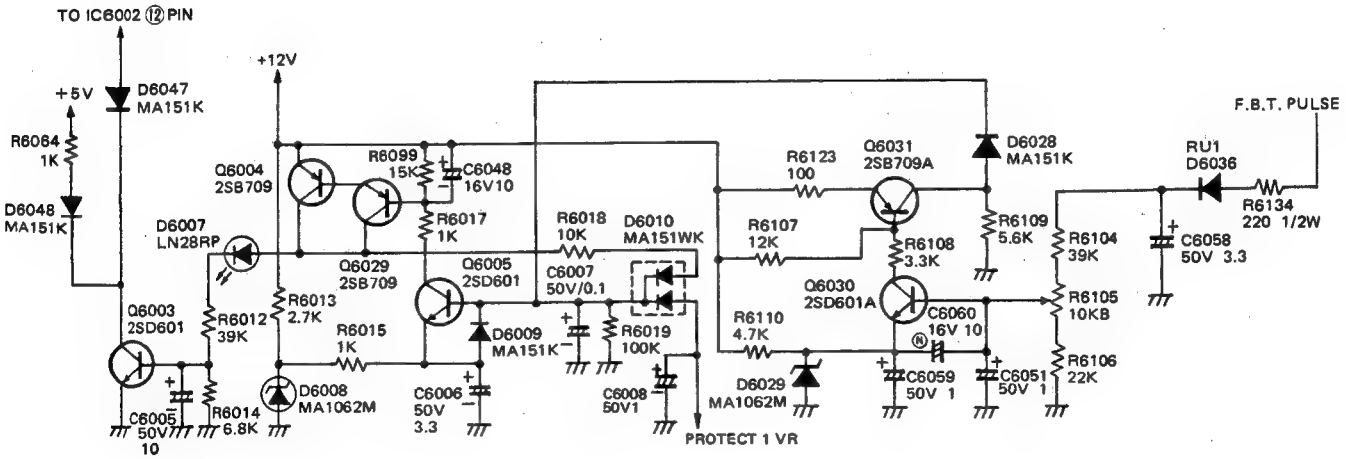
HORIZONTAL OSC. DISABLE CIRCUIT TEST

This test must be made as a final check before the set is returned to the customer.

1. With the chassis case removed, supply a nominal 220 – 240V AC to the set, turn on the set.
2. Set the customer controls to normal operating positions.
3. Turn the TEST ON/OFF to ON position.
4. Turn the TEST PATTERN SW on C1-P.W.B. to VIDEO position. Connect the + side of DC voltmeter to + side of C6045 and the – side to TPE5 (Earth).
5. Short the C6008 with a jumper wire.
6. Short the R6104 with a jumper wire.
   Confirm vanish the high voltage, and raster stop, and 120V ± 10V on the voltmeter, and LED D6007 lighting.
7. If this does not occur, the Horizontal Osc. Disable Circuit is not operating. Follow the Horizontal Osc. Disable Circuit Repair Procedures before the set is returned to the customer.

REPAIR PROCEDURES OF THE HORIZONTAL OSCILLATOR DISABLE CIRCUIT

1. Connect a DC voltmeter between Capacitor C6058 + on the E1-P.W.B. and chassis ground. If nearly 15V is not present on that point find the cause. Check R6134, D6036, C6058, R6104, R6105 and R6106.
2. Connect the + side of DC voltmeter to collector of Q6003 and the – side to TPE5 (Earth). The collector of Q6003 potential varies from nearly 10V to nearly 0.2V when shorting R6104. If this does not occur, check C6051, C6060, C6059, Q6030, R6108, D6029, R6110, Q6031, R6123, R6109, D6028, C6007, R6019, D6010, R6018, D6009, C6006, Q6005, R6015, R6017, R6099, C6048, Q6029, Q6004, D6008, R6013, D6007, R6012, R6014, C6005, R6107 and Q6003.
3. Carefully check the above specified parts and related circuits and parts.
   When the circuit is repaired, try the Horizontal Osc. Disable Circuit Test again.
4. In case that at least one of R6104, R6105, R6106, D6029 and the FBT is replaced, follow Adjustment Procedure of Horizontal Osc. Disable Circuit as follows.



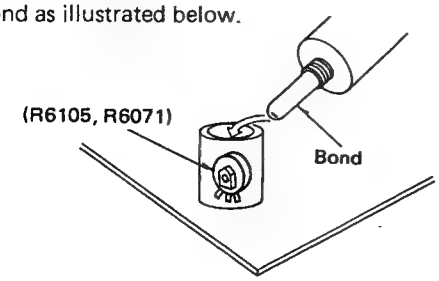
ADJUSTMENT PROCEDURE OF THE HORIZONTAL OSCILLATOR DISABLE CIRCUIT

Replace R6105 (Protector 2 Adj.) and R6071 (HV Adj.) before this adjustment. R6105 (Protector 2 Adj.) and R6071 (HV Adj.) are manufactures specified parts only.

1. Set the following controls at the positions indicated.
   Input Signal Selector SW (S7006) . . . . . LINE
   TV-System Selector SW (S7001) . . . . . AUTO
   R6071 (HV Adj.) . . . . . Fully Counter-clockwise
   R6105 (Protector 2 Adj.) . . . Fully Counter-clockwise
   Connect the + (positive) side of DC voltmeter to **TPE1** and – (negative) side to **TPE2** on E-Board.
2. Connect the high voltage meter to anode lead of the distributer as shown in Fig. 1.
3. Turn on the Power Switch, and receive a monoscope pattern signal.
4. Connect a short jumper between **TPB16** and **TPB17** on B-Board and between **TPE6** and **TPE5**, and C6008 both sides.
5. Adjust R6071 (HV Adj.) the Brightness control and the Contrast control to obtain (34kV±0.3kV) on the high voltage meter, and obtain (1.9V±0.05V) on the voltage meter.

   CAUTION:

   Use only a Static Type of High Voltage Meter which has a 5% tolerence at 40 kV.
6. Adjust R6105 (Protector 2 Adj.) slowly clockwise until shut-down occurs and hold that position.
7. Turn off the power switch.
8. Adjust R6071 (HV Adj.) slightly counter-clockwise.
9. Turn on the power switch.
10. Adjust R6071 (HV Adj.) slowly clockwise until shut-down occurs High Voltage should be 34kV±0.5kV, and 1.9V±0.05V on the voltage meter just before shut-down.
11. If the readings in step 10 are not confirmed, repeat steps 5 to 10.
12. Turn off the power switch.
13. Disconnect the short jumper between **TPB16** and **TPB17** and between **TPE6** and **TPE5**, and C6008 both sides.
14. Turn on the power switch, and confirm that the high voltage is 32.0 kV ± 0.5 kV.
15. Confirm that the high voltage does not change by turning the Brightness and Contrast controls.
16. Fix R6105 (Protector 2 Adj.) and R6071 (HV Adj.) with bond as illustrated below.



DISCONNECTION OF ANODE LEAD FROM THE DISTRIBUTER AND CONNECTION OF HIGH VOLTAGE METER.

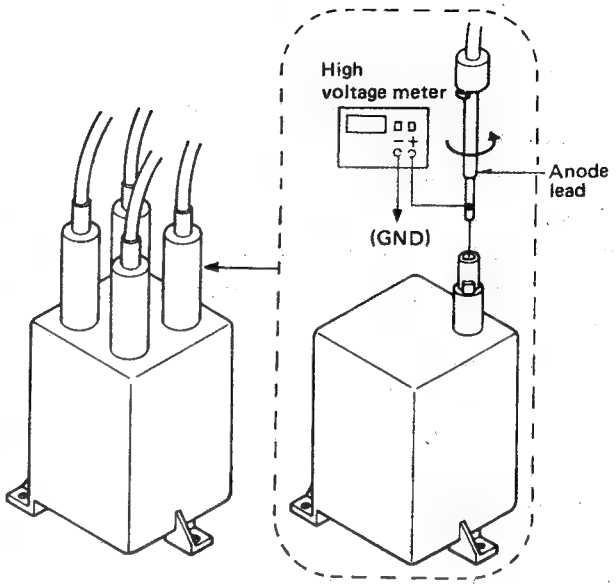


Fig. 1

X-RAY PRECAUTIONS

The front area (between the projection tube and the lens.) is enclosed by a metal box to ensure positive safety during abnormal and normal conditions when checking and doing repair work. To fully ensure safety, however, the following precautions must be observed.

(1) Do not remove the lens.
(2) Be sure to turn OFF the power when the lens must be removed and when you could be exposed to X-rays during cleaning and other routine servicing.
(3) Do not remove the lens to check the projection tube for operation by watching it directly.
(4) Do not remove the LEAD TAPE on the CRTs.
(5) Do not remove the METAL COVER on the CRTs.

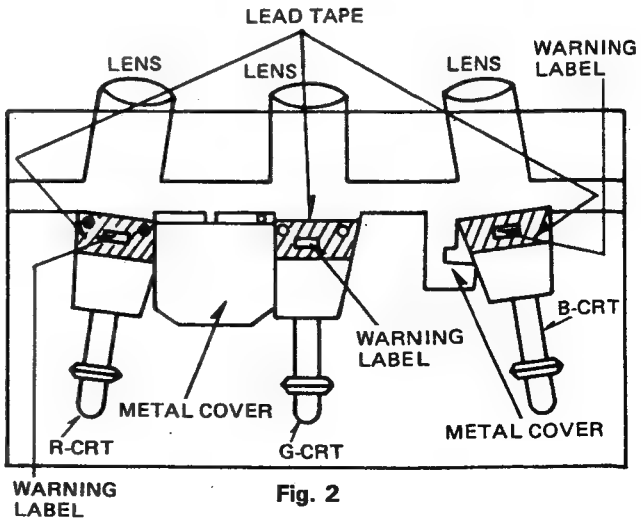
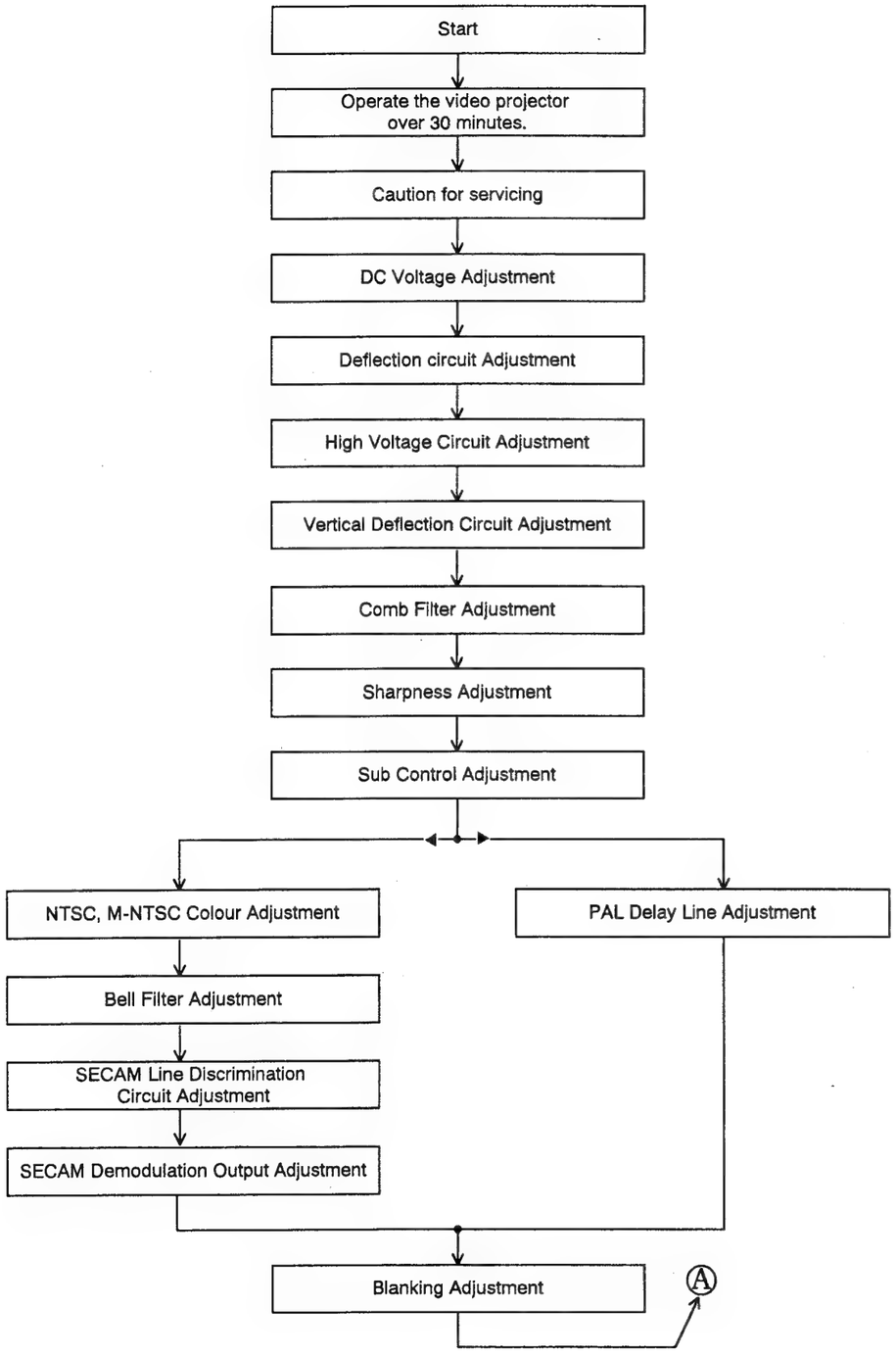


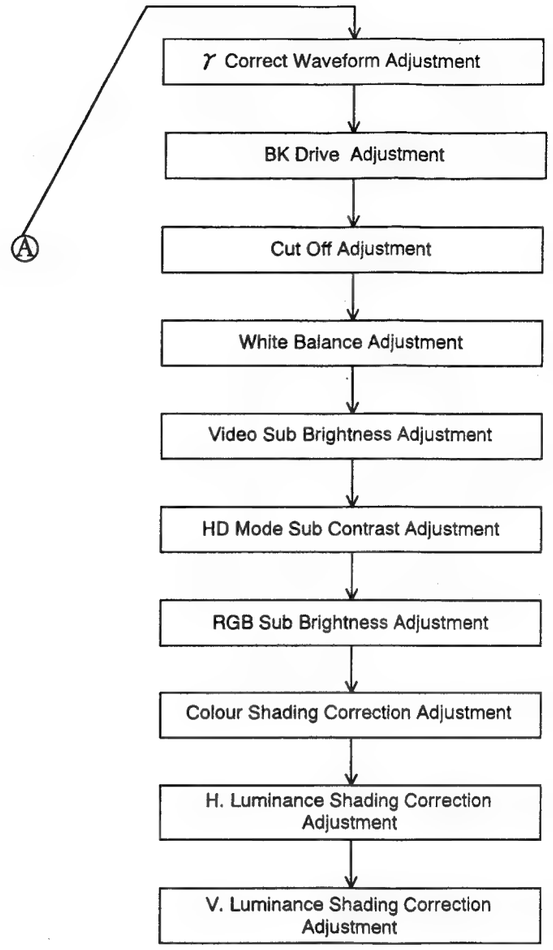
Fig. 2

Measurements and Adjustments

Contents

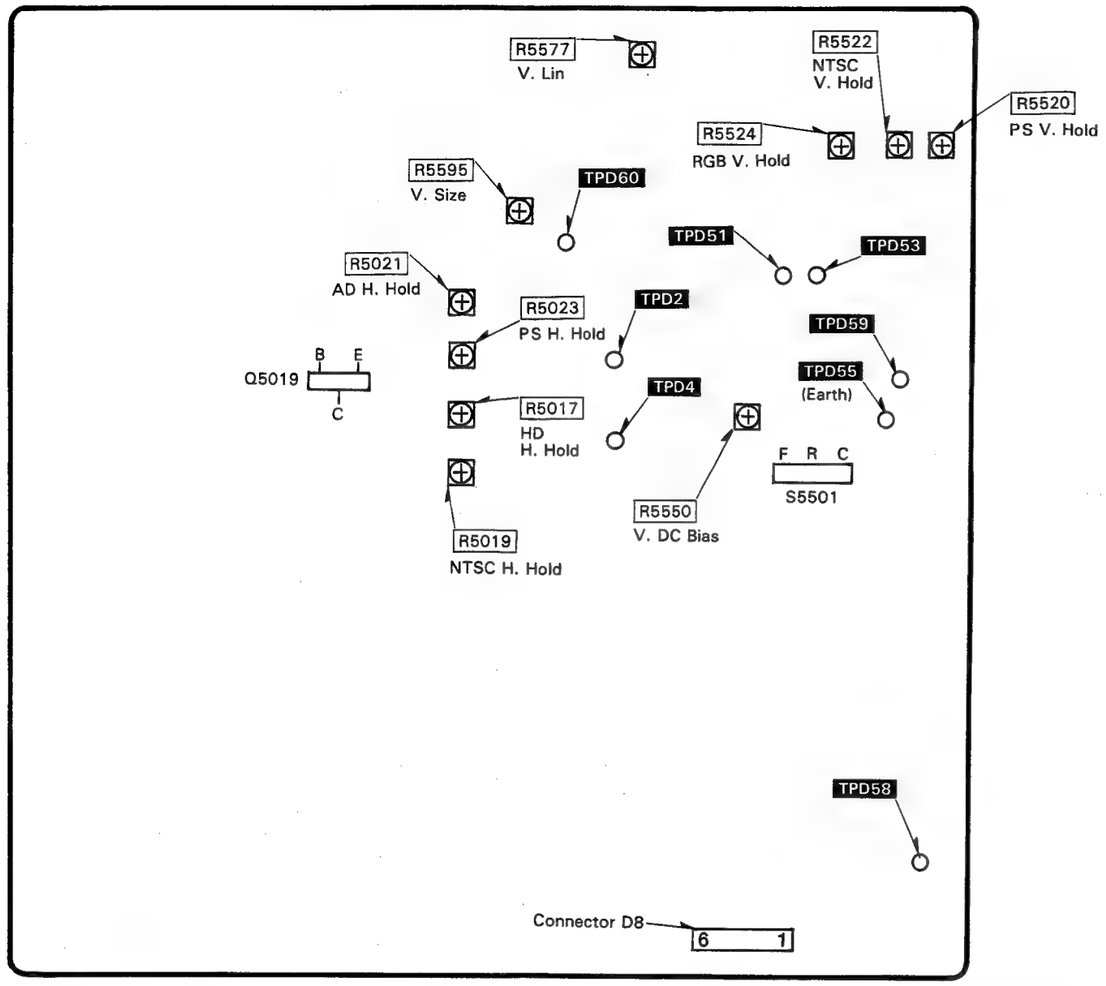
Adjustment Procedure Flowchart



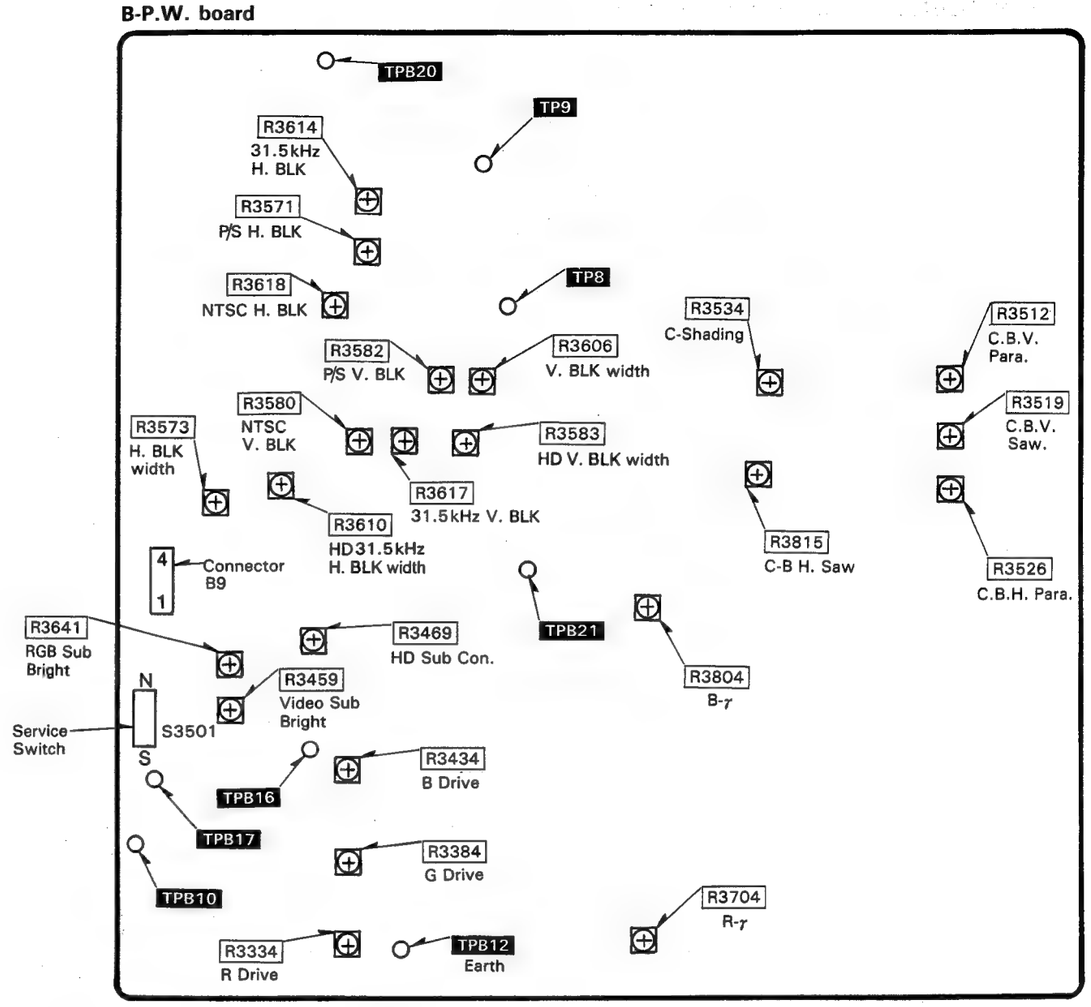


Location of Test Points and Controls

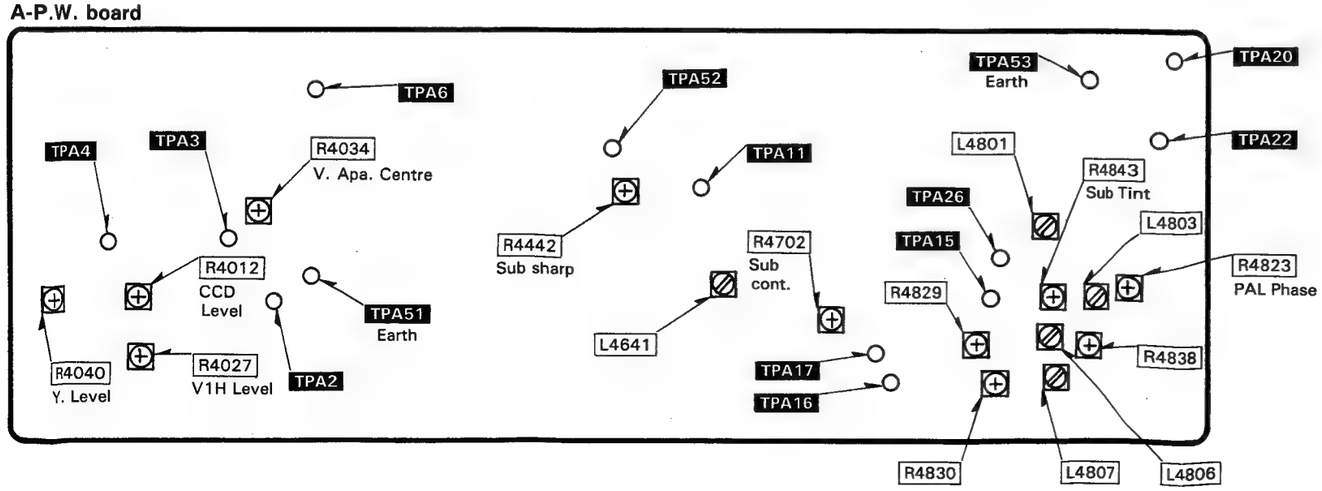
D1-P.W. board



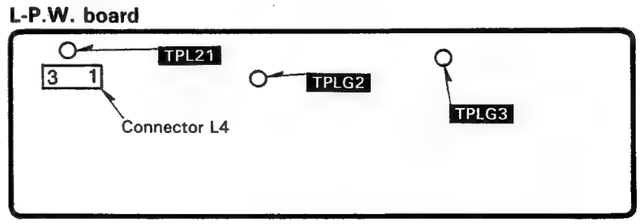
B-P.W. board



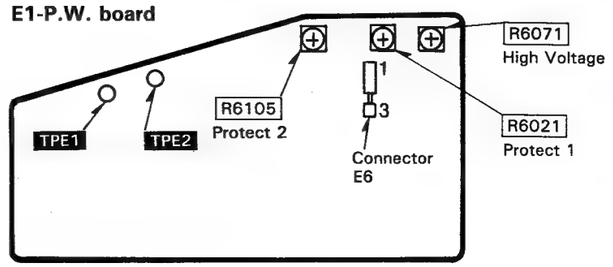
A-P.W. board



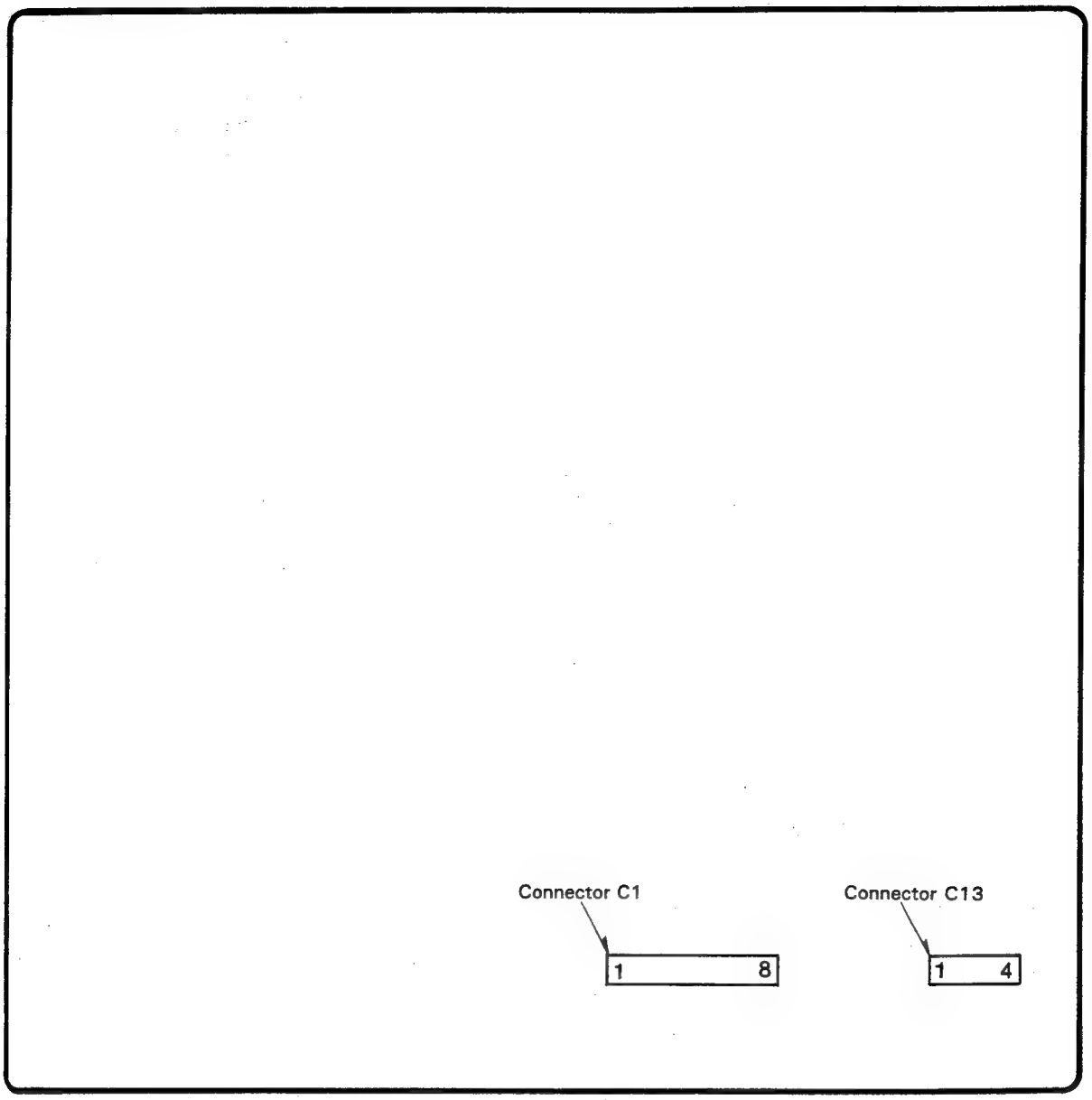
L-P.W. board



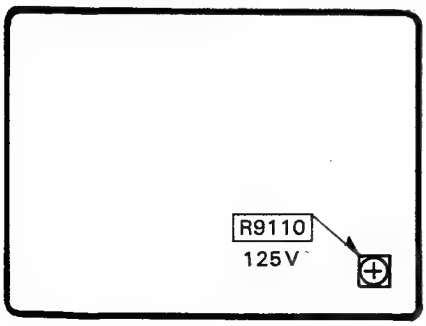
E1-P.W. board



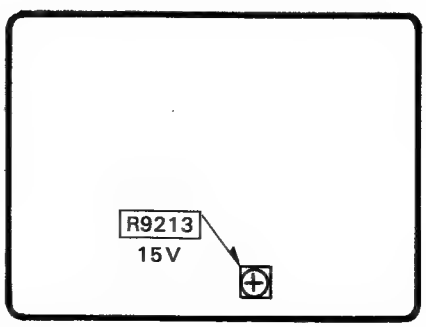
C1-P.W. board



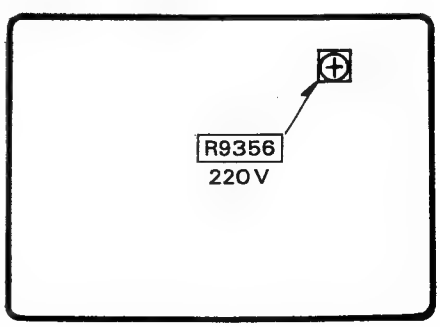
P1-P.W. board



P2-P.W. board



P3-P.W. board



Caution for Adjusting

Note 1: 1. When a screwdriver is needed during adjustment, use a non-metallic screwdriver to prevent unexpected short-circuits.

2. Transformer core position. (Application for both Field Adjustment and General alignment.)
Unless otherwise noted, a transformer core which has two tuning peak points should be adjusted at the lower position as shown in Fig. 1.

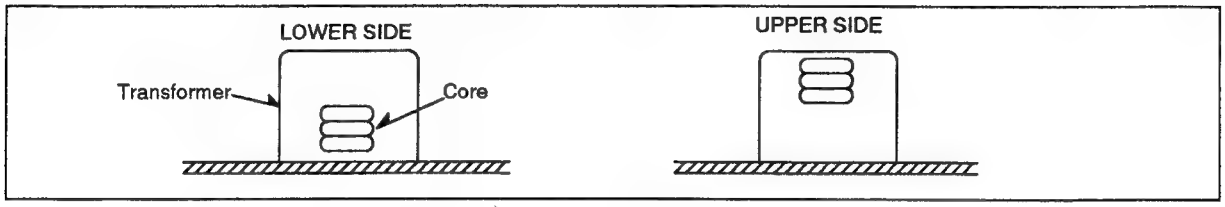


Fig. 1

Note 2: 1. Colour video/data projector are badly affected by magnetic fields. All efforts must be made to keep transformers, iron plates, or anything else likely to distort the magnetic field well away from a colour video/data projector.
If magnetic influence is expected, steps should be taken to eliminate the magnetic field.

2. Input signals should be 1Vp-p video signal, 0.3V synchronizing signal, standard (−10 dB) audio signal or 0.7Vp-p RGB signals with positive polarity, 1Vp-p 3 dB H.V. synchronizing signal with negative polarity.

DC Voltage Adjustment

— P2-P.W. board Adjustment —

1. Equipment to Used
Didital Voltmeter
Video Generator

2. Initialize Condition
Brightness control ·····Minimum
Picture control·····Minimum

3. Adjustment Procedure
1. Input a NTSC monoscope pattern signal to line input terminal
2. Connect a digital voltmeter to **TPB21** and **TPB20** (Earth).

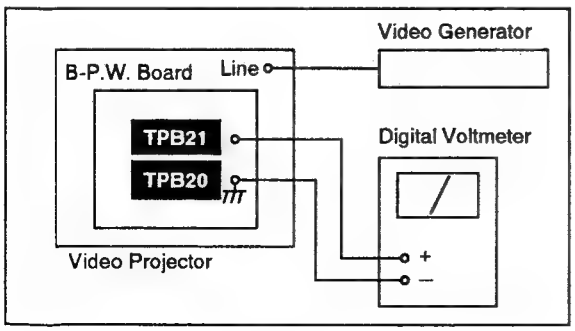


Fig. 2

3. Adjust R9213 (15V adj.) so that the voltage is 15.5V ± 0.2V.
4. Connect a digital voltmeter between each measurement points and chassis earth.
5. Check below for the indicated measurement points and their specified voltages.
(See Tabel 1)

Measurement Points		Voltage
Pin ① of connector C1	(CI-P.W. Board)	+30 ± 1.5V
Pin ②of connector C1		+16 ± 1.0V
Pin ③ of connector C1		+10 $^{+2}_{-0}$ V
Pin ⑦ of connector C1		− 16 ± 1.0V
Pin ⑧ of connector C1		− 30 ± 1.5V
TPLG2 (L-P.W. board)		+6 ± 0.3V

Table 1

— P3-P.W. board Adjustment —

1. Equipment to Used
Didital Voltmeter
Video Generator

2. Initialize Condition
Brightness control ·····Minimum
Picture control ·····Minimum

3. Adjustment Procedure
1. Input a NTSC monoscope pattern signal to line input terminal
2. Connect a digital voltmeter to **TPL21** and chassis earth.

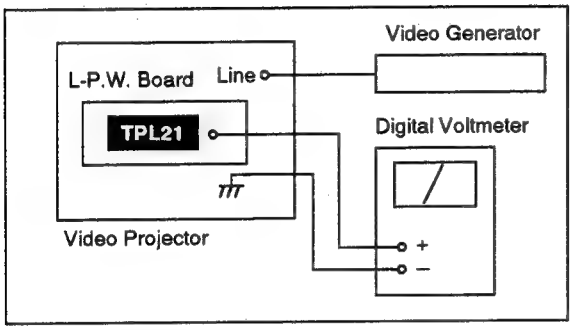


Fig. 3

3. Adjust R9356 (220V adj.) so that the voltage is 220 ± 2.0V.
4. Connect a digital voltmeter between each measurement points and chassis earth.
5. Check below for the indicated measurement points and their specified voltages. (See table 2)

Measurement Points		Voltage
Pin ⑤ of connector D8	(D1-P.W. board)	+118 ± 3.0V
Pin ④ of connector D8		+78 ± 3.0V
Pin ① of connector C13	(C1-P.W. board)	+9 ± 0.5V
Pin ② of connector C13		+9 ± 0.5V

Table 2

— P1-P.W. board Adjustment —

1. Equipment to Used
Didital Voltmeter
Video Generator

2. Initialize Condition
Brightness control ·····Minimum
Picture control ·····Minimum

3. Adjustment Procedure
1. Input a NTSC monoscope pattern signal to line input terminal
2. Connect a digital voltmeter to pin ③ of connector E6 and chassis earth.

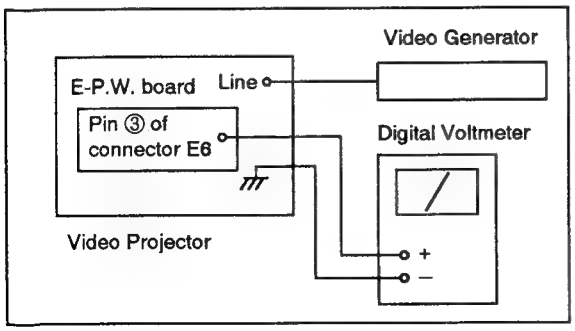


Fig. 4

3. Adjust R9110 (125V adj.) so that the voltage is 125 ± 1.0V.
4. Connect a digital voltmeter to pin ① of connector B9 and chassis earth.

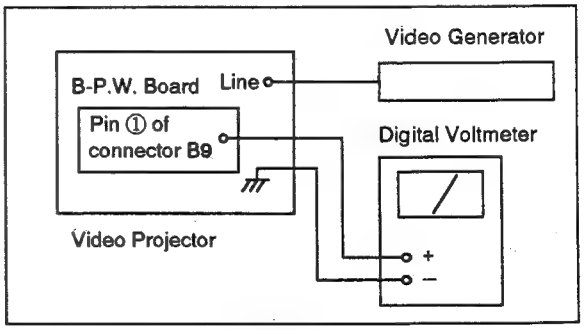


Fig. 5

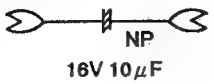
5. Confirm that the voltage is − 150 ± 15V.

Deflection Ciurcuit Adjustment

— H. Sync. Adjustment — (D1-P.W. board)

1. Equipment to Used

Frequency Counter
Programmable Video Generator
Jumper Wire Jig;



2. Initialize Condition

All control on D1-P.W. board ····· Centre
(See page 21)

3. Adjustment Procedure

1. See the input selector to LINE mode.
2. Set the system selector to PAL mode.
3. Connect a jumper wire jig between TPD2 and TPD4.
4. Input a PAL phillips pattern signal to line input terminal.

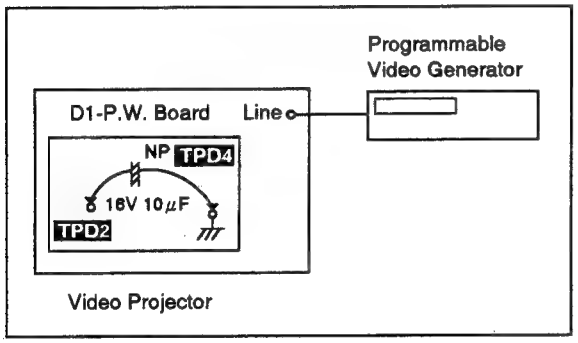


Fig. 6

5. Adjust R5023 (P/S H. Hold) so that the picture is synchronized.
6. Disconnect a jumper wire jig, confirm that the picture is synchronized.
7. Set the system selector to NTSC mode.
8. Input NTSC monoscope pattern signal to line input terminal.
9. Connect a jumper wire jig between TPD2 and TPD4. (See Fig. 6)
10. Adjust R5019 (NTSC H. Hold) so that the picture is synchronized.
11. Disconnect a jumper wire jig, confirm that the picture is synchronized.
12. Set the input selector to RGB mode.
13. Input a monoscope pattern signal (f_H =31.5 kHz, fv – 60 Hz) to RGB input terminal.
14. Connect a jumper wire jig between TPD2 and TPD4.
15. Connect a frequency counter to Q5019 © and chassis earth.

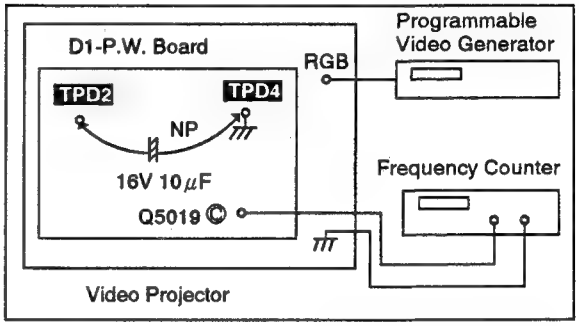


Fig. 7

16. Adjust R5021 (AD H. Hold) so that the picture is synchronized.
17. Confirm that the frequency is 31.5 ± 0.05 kHz.
18. Disconnect a jumper wire jig, confirm that the picture is synchronized.
19. Input a monoscope pattern signal (f_H = 33.75 kHz, fv = 60 Hz) to RGB input terminal.
20. Connect a jumper wire jig between TPD2 and TPD4. (See Fig. 7)
21. Adjust R5017 (HD H. Hold) so that the picture is synchronized.
22. Confirm that the frequency is 33.75 ± 0.05 kHz.
23. Disconnect a jumper wire jig, confirm that the picture is synchronized.

— V. Sync. Adjustment — (D1-P.W.board)

1. Equipment to Used
Oscilloscope
Short Jumper Wire
Programmable Video Generator

2. Adjustment Procedure
1. Set the input selector to LINE mode.
2. Set the system selector to AUTO mode.
3. Connect a short jumper wire between **TPD51** and **TPD55** (earth).
4. Connect a frequency counter to **TPD59** and **TPD55** (earth).

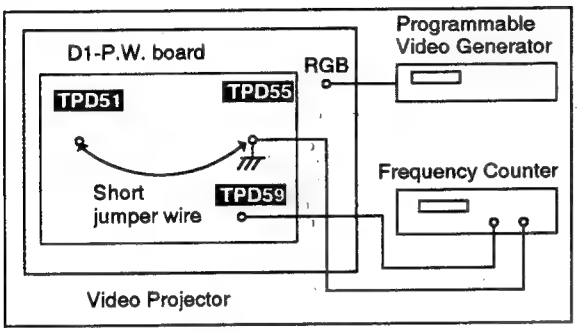


Fig. 8

5. Input a NTSC monoscope pattern signal to line input terminal.
6. Adjust R5522 (NTSC V. Hold) so that the frequency is 50 ± 2 Hz.
7. Disconnect a short jumper wire, confirm that the V. Sync. is holding.
8. Input a PAL Phillips pattern signal to line input terminal.
9. Connect a short jumper wire between **TPD51** and **TPD55** (earth).
10. Adjust R5520 (P/S V. Hold) so that the frequency is 41 ± 2 Hz.
11. Disconnect a short jumper wire, confirm that the V. Sync. is holding.
12. Set the input selector to RGB mode.
13. Input a monoscope pattern signal (f_H = 31.5 kHz, fv = 60 Hz) to RGB input terminal.
14. Connect a short jumper wire between **TPD53** and **TPD55** (earth).

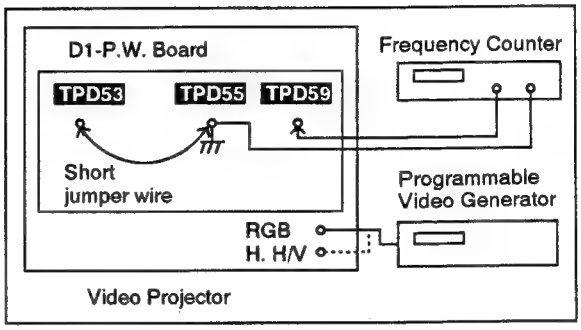


Fig. 9

15. Adjust R5524 (RGB V. Hold) so that the frequency is 45 ± 1 Hz.
16. Disconnect a short jumper wire, confirm that the V. Sync. is holding.
17. Input a H.V. composite Sync. to RGB H. H/V input terminal. (See Fig. 9)
18. Confirm that the V. Sync. is holding.

High Voltage Circuit Adjustment (B/E1-P.W. board)

— Protection Circuit Adjustment —

1. Equipment to Used
High Voltage Meter
Digital Voltmeter
Short Jumper Wire
Video Generator

2. Adjustment Procedure
1. Fully turn R6071 (High voltage) counter-clockwise.
2. Input a monoscope pattern signal to line input terminal.
3. Connect a high voltage meter to high voltage distributor.
4. Connect a digital voltmeter between **TPE1** and **TPE2**.
5. Connect a short jumper wire between **TPB16** and **TPB17**.

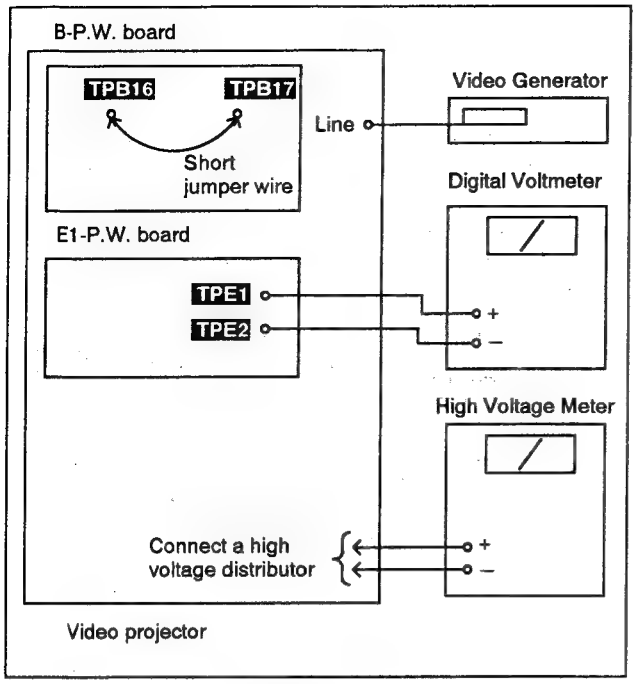


Fig. 10

6. Adjust R6071 (High voltage), picture control and brightness control so that the value of high voltage is 34 ± 0.3 kV and value of voltage is 1.7 ± 0.05V.
7. Slowly turn R6105 (Protect) counterclockwise, fix R6105 that shut down is move.
8. Fully turn R6071 (High voltage) counterclockwise.
9. Turn off AC power switch.
10. Re-turn on AC power switch.
11. Adjust R6071 (High voltage) so that the value of high voltage is 34 ± 0.5 kV.
12. Confirm that the shut down is move.
13. Confirm that the value of voltage is 1.7 ± 0.05V before moving the shut down.
14. If value of voltage is not 1.7 ± 0.05V, repeat step 1 to 14.
15. Fully turn R6071 (High voltage) counterclockwise.
16. Set the picture control and brigfhtness control to minimum.
17. Adjust R6071 (High voltage) so that the value of high voltage is 34 ± 0.3 kV.
18. Slowly turn R6021 (Protect) counterclockwise, fix R6021 that shut down is move.
19. Fully turn R6071 (High voltage) counterclockwise.
20. Turn off AC power switch.
21. Re-turn on AC power switch.
22. Adjust R6071 (High voltage) so that the value of high voltage is 34 ± 0.5 kV.
23. Confirm that the shut down is move.
24. If value of high voltage is not 34 ± 0.5 kV, repeat step 15 to 24.
25. Fix R6105 and R6021 by silicon bond.

— High Voltage Adjustment —

1. Equipment to Used

High voltage Meter
Video Generator

2. Adjustment Procedure

1. Input a monoscope pattern signal to line input terminal.
2. Set the picture control and brightness control to minimum for be deep black the picture.
3. If picture is not deep black, adjust R3459 (Video Sub bright).
4. Connect a high voltage meter to high voltage distributor.
5. Adjust R6071 (High voltage) so that the value of high voltage is 32 ± 0.5 kV.
6. Set the picture control and brightness control to maximum.
7. Confirm that the value of high voltage is 32 $^{+0.5}_{-1.0}$ kV.
8. Fix R6071 by silicon bond.

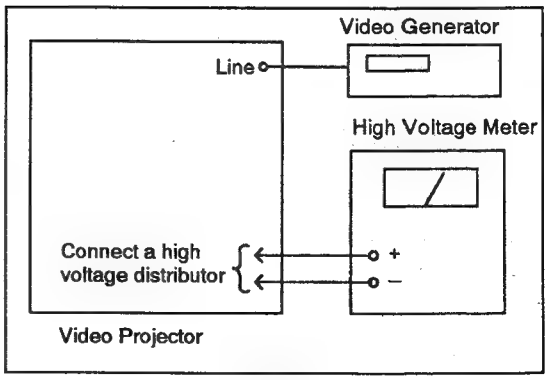


Fig. 11

Vertical Deflection Circuit Adjustment (D1-P.W. board)

1. **Equipment to Used**
   Digital voltmeter
   Oscilloscope.
   Video Generator
2. **Initialize Condition**
   S5501 (Raster up/down) ····· Centre
3. **Adjustment Procedure**
   1. Set the input selector to LINE mode.
   2. Input a NTSC monoscope pattern signal to line input terminal.
   3. Connect an oscilloscope to **TPD60** (IC5505 ①) and chassis earth.
   4. Connect a digital voltmeter to **TPD58** and **TPD55** (earth).
   5. Adjust R5577 (V. Lin.) so that the V. para. amplitude is 0Vp-p.
   6. Adjust R5595 (V. Size) so that the voltage is AC 165 ± 5mV.
   7. Adjust R5550 (DC Bias) so that the voltage is 2 ± 1mV.
   8. Set the S5501 (Raster up/down) to using mode.

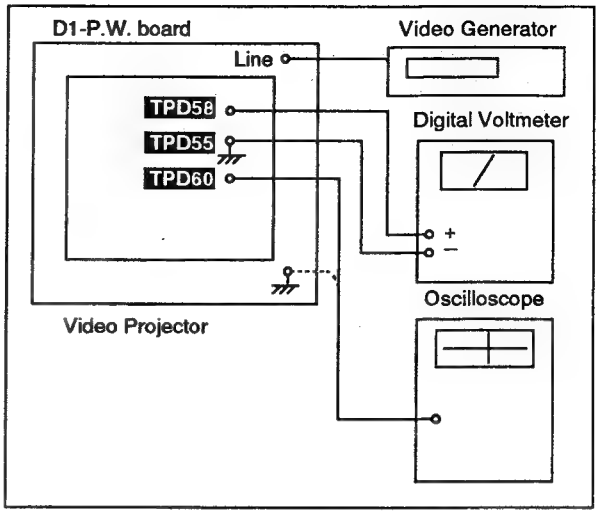


Fig. 12

Comb Filter Adjustment (A-P.W. board)

1. **Equipment to Used**
   Oscilloscope
   Short Jumper Wire
   Video Generator
2. **Initialize Condition**
   System selector ····· NTSC
3. **Adjustment Procedure**
   1. Input a white balance pattern signal to line input terminal.
   2. Connect an oscilloscope to **TPA3** and **TPA51** (earth).
   3. Connect a short jumper wire to TPA2 and TPA51 (earth).

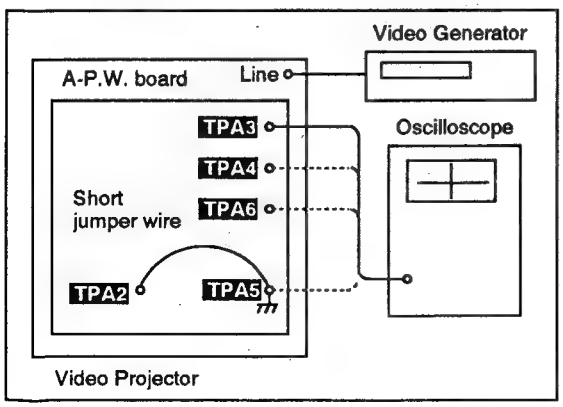


Fig. 13

4. Adjust R4012 (CCD Level) so that the signal level is 0V (V rate).
5. Connect an oscilloscope to **TPA4** and **TPA51** (earth).
6. Adjust R4034 (V. Apa. centre) to achieve waveform shown in Fig. 14.

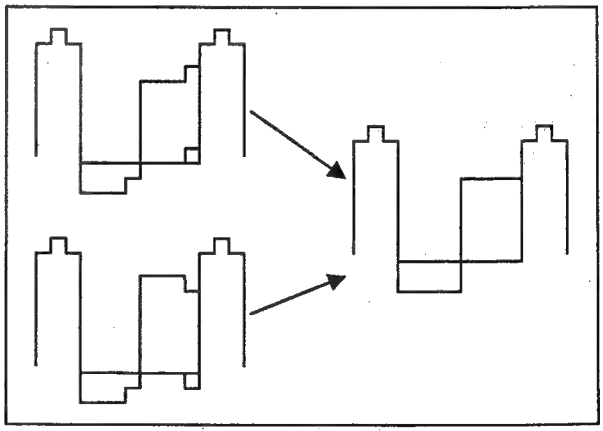


Fig. 14

7. Input a NTSC studio colour bar signal to line input terminal.
8. Disconnect a short jumper wire.
9. Adjust R4027 (V/H Level) and C4018 so that the chroma level is minimum (cyan is less than 50mV).

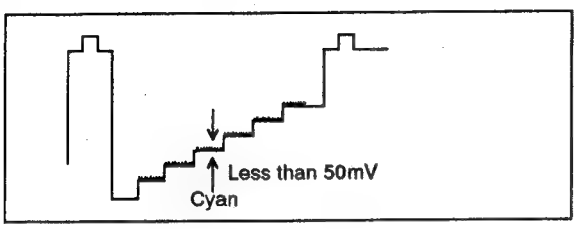


Fig. 15

10. Connect an oscilloscope to **TPA6** and **TPA51** (earth).
11. Adjust R4040 (Y Level) so that the studio colour bar is 0.70 ± 0.05V_{B-W}.

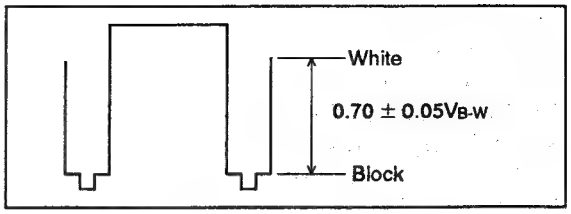


Fig. 16

Sharpness Adjustment (A-P.W. board)

1. Equipment to Used
Digital Voltmeter
Video Generator

2. Initialize Condition
System selector ····· AUTO
Sharpness control ····· Centre
Colour control ····· Centre
Brightness control ····· Centre
Picture Control ····· Max.

3. Adjustment Procedure
1. Input a monoscope pattern signal to line input terminal.
2. Connect a digital voltmeter to **TPA11** and **TPA52**.
3. Adjust R4442 (Sub sharpness) so that the voltage is 6.8 ± 0.01V.

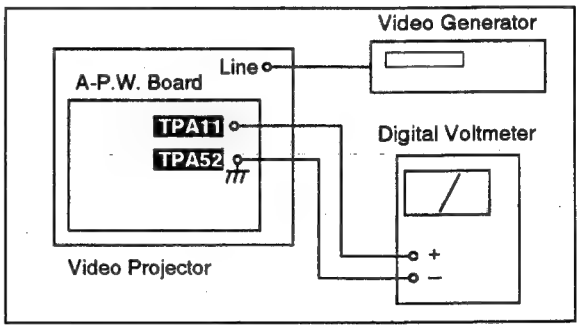


Fig. 17

Sub Contrast Adjustment (A-P.W. board)

1. Equipment to Used
Oscilloscope
Video Generator

2. Initialize Condition
Picture control ····· Max.
Colour control ····· Min.
Brightness control ····· Centre
System selector ····· NTSC

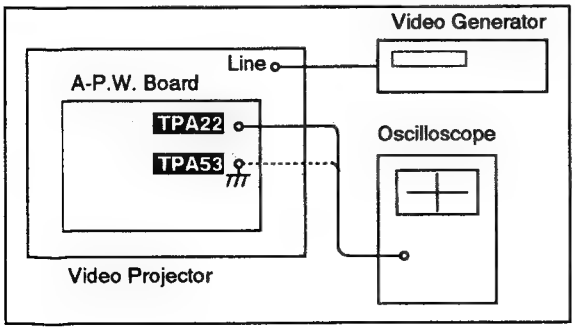


Fig. 18

3. Adjustment Procedure
1. Input a NTSC studio colour bar to line input terminal.
2. Connect an oscilloscope to **TPA22** and **TPA53** (earth).
3. Adjust R4702 (Sub Contrast) so that the level is 0.61 ± 0.01V_{B-W}.

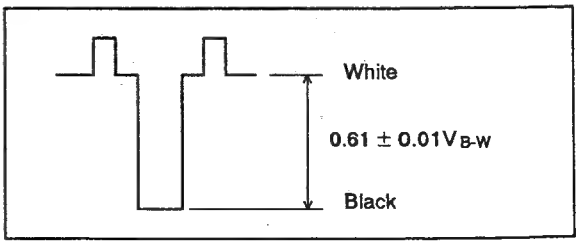


Fig. 19

NTSC, M-NTSC Colour Adjustment (A-P.W. board)

1. Equipment Used
Oscilloscope
Video Generator

2. Initialize Condition
System selector ..... NTSC

3. Adjustment Procedure
1. Input a 3.58 NTSC rainbow pattern signal to line input terminal.
2. Connect an oscilloscope to **TPA20** and **TPA53** (earth).

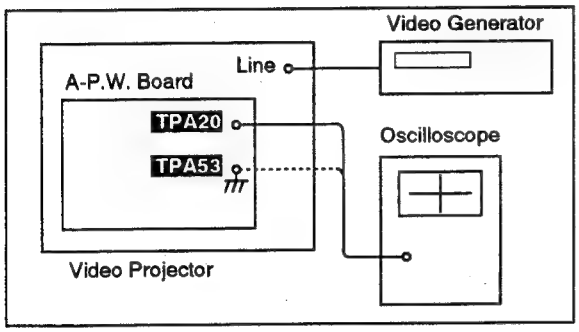


Fig. 20

3. After confirming tint on-screen on picture by pressing tint key on remote controller, confirm the standard on-screen on picture by pressing standard key on remote controller.
4. Adjust R4843 (Sub Tint) so that the 2 and 3 is parallel.

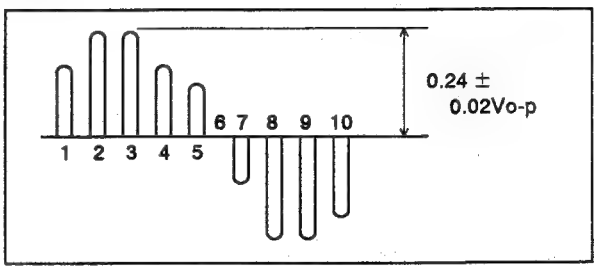


Fig. 21

5. After confirming colour on-screen on picture by pressing colour key, on remote controller, confirm the standard on-screen on picture by pressing standard key on remote controller.
6. Adjust R4838 (Sub Colour) so that the level is 0.24 ± 0.02Vo-p. (See Fig. 21)

Bell Filter Adjustment (A-P.W. board)

1. Equipment Used
Oscilloscope
Video Generator
10k Ω resistor

2. Initialize Condition
System selector ..... SECAM
Colour control ..... Centre
Picture control ..... Max.
Brightness control ..... Centre

3. Adjustment Procedure
1. Input a SECAM studio colour bar signal to line input terminal.
2. Connect an oscilloscope to **TPA15** and **TPA53** (earth).
3. Adjust L4641(Bell Filter) so that the SECAM chroma waveform is most flat.

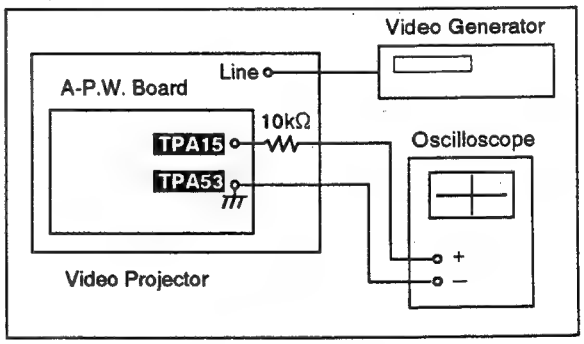


Fig. 22

SECAM Line Discrimination Circuit Adjustment (A-P.W. board)

1. Equipment to Used
Digital Voltmeter
Video Generator

2. Initialize Condition
System selector ..... SECAM
Colour control ..... Centre
Picture control ..... Max.
Brightness control ..... Centre

3. Adjustment Procedure
1. Input a SECAM studio colour bar signal to line input terminal.
2. Connect a digital voltmeter to TPA26 and TPA53 (earth).

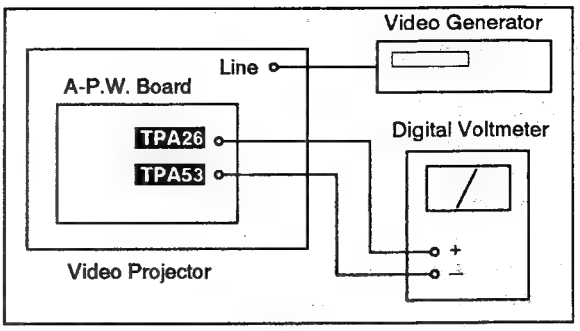


Fig. 23

3. Adjust L4801 for maximum DC value.
4. Confirm that the voltage value is more than 7V.
5. Confirm that the colour bar is normal.

SECAM Demodulation output Adjustment (A-P.W. board)

1. Equipment to Used
Digital Voltmeter
Video Generator

2. Initialize Condition
System selector ..... SECAM
Picture control ..... Max.
Colour control ..... Centre
R4829, R4830 ..... Centre
Brightness control ..... Centre

3. Adjustment Procedure
— B Demodulation Output Adjustment —
1. Input a SECAM studio colour bar signal to line input terminal.
2. Connect an oscilloscope to TPA22 and TPA17.

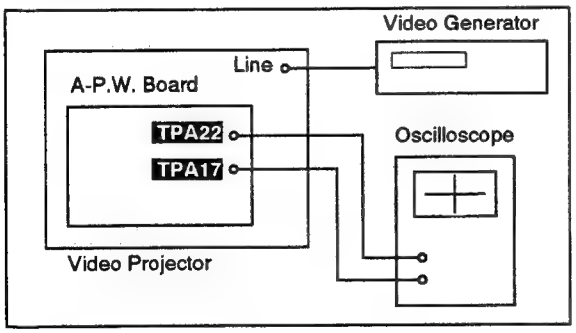


Fig. 24

3. Adjust L4807 so that the H blanking period on TPA17 and colour centre line is same level.

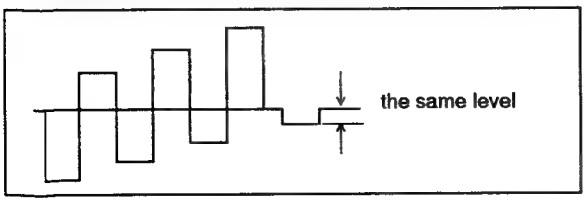


Fig. 25

4. Adjust R4830 (B output) so that the level at TPA22 is 0.43 ± 0.03Vo-p.
5. Re-confirm the colour centre line at TPA17, if it level is not the same, adjust the step 3 and 4.

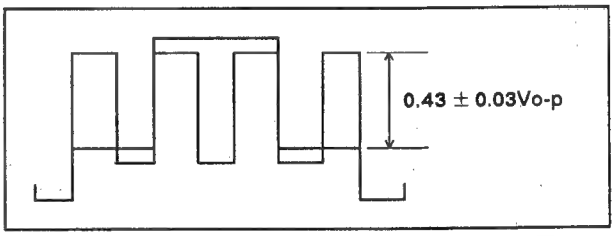


Fig. 26

— R Demodulation Output Adjustment —
1. Connect an oscilloscope to TPA20 an TPA16.

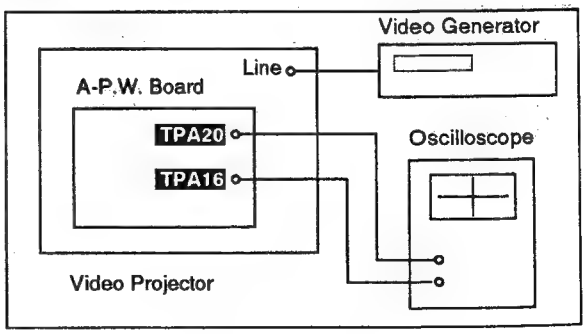


Fig. 27

2. Adjust L4806 so that the H blanking period on TPA16 and colour centre line is same level.

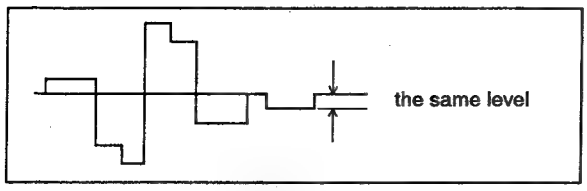


Fig. 28

3. Adjust R4829 (R output) so that the level at TPA20 is 0.54 ± 0.03Vo-p.
4. Re-confirm the colour centre line at TPA16, if it level is not the same adjust the step 2 and 3.

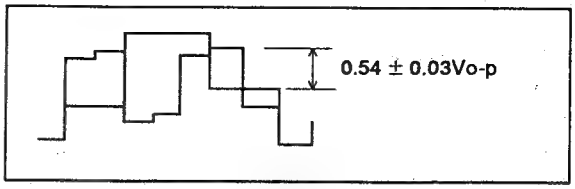


Fig. 29

PAL Delay Line Adjustment (A-P.W. board)

1. Equipment to Used

Oscilloscope
Video Generator

2. Initialize Condition

System selector ..... PAL
Colour control ..... Centre
Picture control ..... Max.
Brightness control ..... Centre

3. Adjustment Procedure

1. Input a PAL studio colour bar to line input terminal.
2. Connect an oscilloscope to TPA22 and TPA53 (earth).

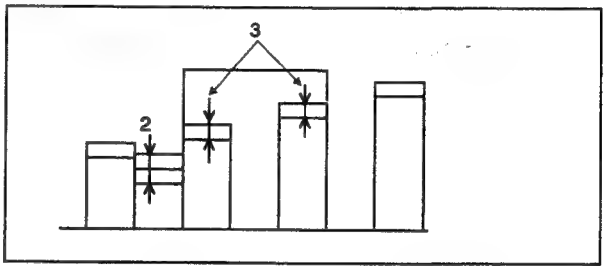


Fig. 30

3. Adjust R4823 (Delay line) so that the level of 2 is zero.
4. Adjust L4803 so that the 1H and 2H of 3 is matching.

Blanking Adjustment (B-P.W. board)

1. Equipment to Used

Video Generator

2. Adjustment Procedure

1. Input a NTSC monoscope pattern signal to line input terminal.
2. Adjust R3618 (NTSC H. BLK) and R3573 (N/P/S H. BLK Width) so that the H. BLK is symmetrical.
3. Adjust R3580 (V. BLK) and R3606 (V. BLK Width) so that the V. BLK is symmetrical from top to bottom.
4. Input a PAL colour bar signal to line input terminal.
5. Adjust R3571 (P/S H. BLK) so that the H. BLK is symmetrical.
6. Adjust R3582 (P/S V. VBLK) so that the V. BLK is symmetrical from top to bottom.
7. Input a monoscope pattern signal (fH = 31.5 kHz, fV = 60 Hz) to line input terminal.
8. Adjust R3614 (31.5 kHz H. BLK) and R3610 (HD 31.5 kHz H. BLK Width) so that the H. BLK is symmetrical.
9. Adjust R3617 (31.5 kHz V. BLK) and R3583 (HD V. BLK Width) so that the V. BLK is symmetrical from top to bottom.
10. Input a HD monoscope pattern signal to line input terminal.
11. Adjust R3609 (HD H. BLK) so that the H. BLK is symmetrical.
12. Adjust R3619 (HD V. BLK) so that V. BLK is symmetrical from top to bottom.

γ Correct Waveform Adjustment (B-P.W. board)

1. Equipment to Used
Oscilloscope
RGB signal generator

2. Initialize Condition
Picture control ····· Max.
Brightness control ····· Centre
Input selector ····· RGB
R3704, R3804 ····· Fully counterclockwise

3. Adjustment Procedure
1. Input a fall white signal to RGB input terminal.
2. Connect an oscilloscope to **TPB8** and **TPB10**.

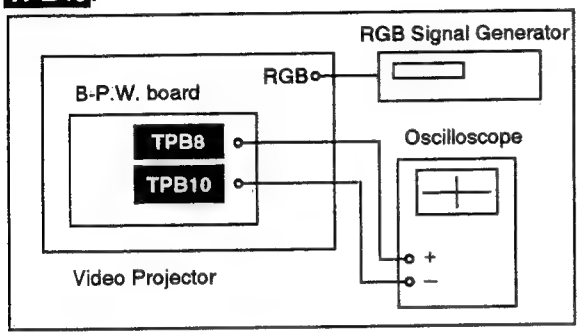


Fig. 31

3. Fully turn R3534 (C-Shading) to clockwise.
4. Slowly turn R3704 (R-γ) to clockwise.
5. Then waveform at **TPB8** is changing to ① → ② → ③ → ④ → ⑤.

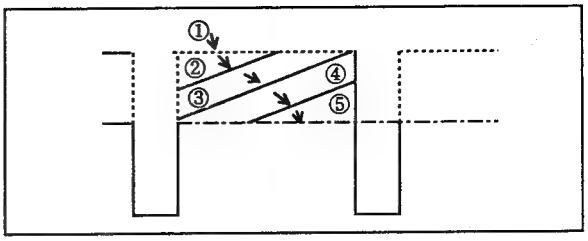


Fig. 32

6. Adjust R3704 (R-γ) so that the waveform at TPB8 is number ③.
7. For waveform at **TPB10**, adjust R3804 (B-γ) by the same procedure (steps 4 to 6).
8. Adjust R3534 (C-shading) and R3513 (C. B V Saw) to centre (no correct).
9. Input a 10 step signal to RGB input terminal.
10. Confirm that the waveform at **TPB8** and **TPB10** is curved.

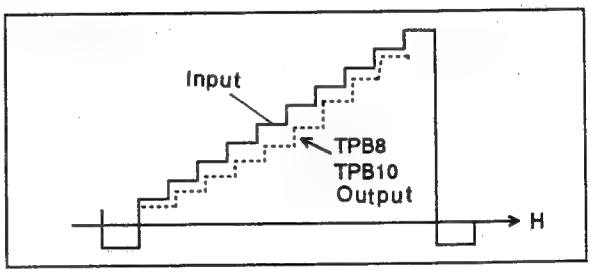


Fig. 33

BK Drive Adjustment (B-P.W. board)

1. Equipment to Used
Oscilloscope
Video Generator

2. Initialize Condition
Brightness control ····· Centre
Colour control ····· Min.
Contrast control ····· Max.
R3334, R3384, R3434 ····· Centre
R3459 (Sub bright) ····· Centre

3. Adjustment Procedure
1. Disconnect a connector L4.
2. Input a NTSC studio colour bar to line input terminal.
3. Connect an oscilloscope to **TPLB** and chassis earth.

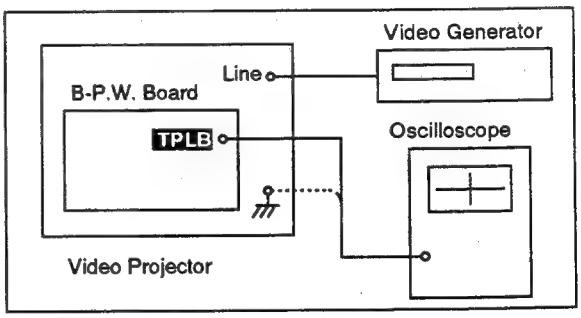


Fig. 34

4. Adjust brightness control to control to black level, about 220V DC level.
5. Adjust R3434 (B drive) to achieve 160VPB-W as shown in Fig. 35.

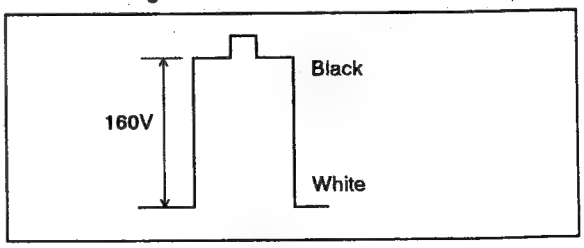


Fig. 35

6. Set poer switch to off and connect a connector L4.

Cut Off Adjustment (B-P.W. board)

1. Equipment to Used
Digital Voltmeter
Video Generator

2. Initialize Condition
Colour control ····· Min.
Brightness control ····· Centre
R3459 (Video sub bright) ····· Centre
Screen VR ····· Min.
R3334, R3384 ····· Centre

3. Adjustment Procedure
1. Input a studio colour bar to line input terminal.
2. Set a service switch to service position.
3. Connect a digital voltmeter to TPLB and chassis earth.

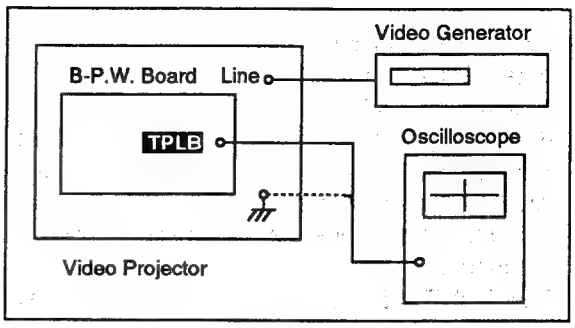


Fig. 36

4. Adjust R3459 (Video sub bright) so that the voltage is 195 ± 1V.
5. Increase the all screen VRs to faint light.
6. Set a service switch to normal position.

White Balance Adjustment (B-P.W. board)

1. Equipment to Used
Video Generator

2. Initialize Condition
Colour control ····· Min.
Brightness control ····· Centre
Picture control ····· Max.

3. Adjustment Procedure
1. Input a NTSC or PAL colour bar signal to line input terminal.
2. Adjust the (R) and (B) screen VRs to achieve the black level.
3. Adjust the red (R3334) and blue (R3434) drive VRs to achieve the white level.

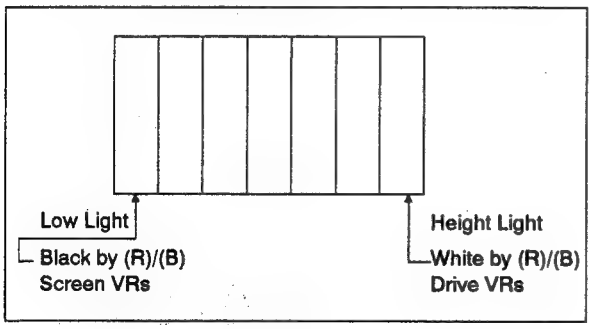


Fig. 37

4. Repeat 2 and 3 for achievment of black and white level.
5. Set the colour control as colour position.
If replace the (G) CRT, please do the following procedures before above step 1).
6. Set the all screen VRs (R, G, B) to the minimum position, all drive VRs (R3334, R3384, R3434) to the centre position and brightness to the click stop.
8. Set service switch(S3501) to the service position.
9. Increase the (G) screen VR to faint light.
※ Do not touch the this (G) screen VR after this adjustment.
10. Set service switch (SW3501) to the normal position.

Video Sub Brightness Adjustment (B-P.W. board)

1. Equipment to Used
Video Generator
2. Initialize Condition
Brightness control ..... Centre
Picture control ..... Max.
3. Adjustment Procedure
1. Input a black level pattern signal to line input terminal.
2. Adjust R3459 (Sub bright) to achieve waveform as shown in Fig. 38.

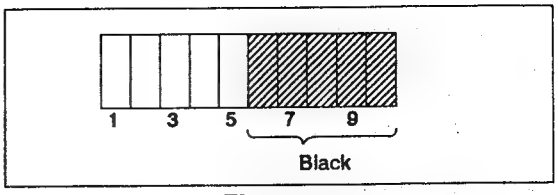


Fig. 38

3. Up and down bright key on remote controller.
4. Confirm that the on screen display is changing from max. to min.
5. Confirm that the bright is changing.

HD Mode Sub Contrast Adjustment (B-P.W. board)

1. Equipment to Used
Digital Voltmeter
Video Generator
2. Initialize Condition
Brightness control ..... Centre
R3461 (RGB sub bright) ..... Centre
Picture control ..... Max.
3. Adjustment Procedure
1. Disconnect a connector L4.
2. Input a HD signal (fH= 33.75 kHz, fV = 60 Hz) to RGB input terminal.
3. Connect an oscilloscope to TPLB and chassis earth.

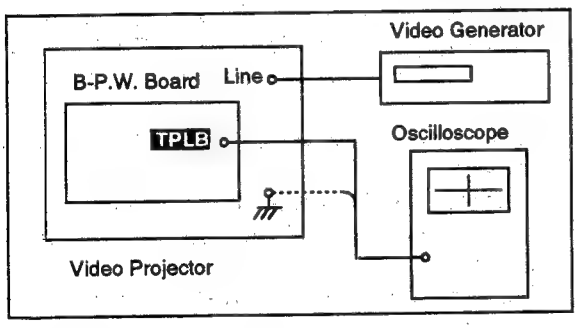


Fig. 39

4. Adjust brightness control to control to black level, about 220V DC level.
5. Adjust R3469 (HD. sub-con.) to achieve 120VB-W as shown in Fig. 40.

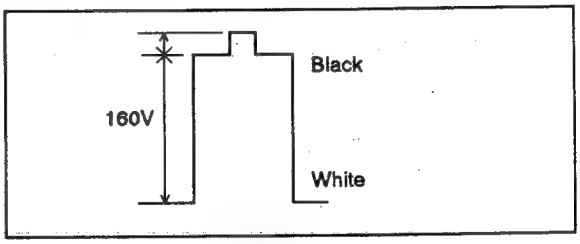


Fig. 40

6. Set power switch to off and connect a connector L4.
7. Set power switch to on, and up and down the picture key on remote controller.
8. Confirm that the on screen display is changing from max. to min.
9. Confirm that the picture is changing.

EGB Sub Brightness Adjustment (B-P.W. board)

1. Equipment to Used
Digital Voltmeter
2. Initialize Condition
Colour control ..... Min.
Brightness control ..... Centre
R3461 (RGB Sub bright) ..... Centre
3. Adjustment Procedure
1. Input a black level pattern signal to RGB input terminal.
2. Adjust R3461 (RGB sub bright) to achieve waveform as shown in Fig. 41

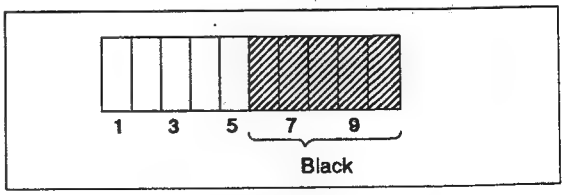


Fig. 41

3. Confirm that the on screen display is changing from max. to min.
4. Confirm that the bright is changing.

Colour Shading Correction Adjustment (B-P.W. board)

1. Equipment to used
Oscilloscope
Video Generator

2. Initialize Condition
Brightness control ..... Centre
Picture control ..... Max.
Colour control ..... Min.

3. Adjustment Procedure
1. Input a monoscope pattern signal to line input terminal.
2. Connect an oscilloscope to TPB8 and TPB12 (earth).

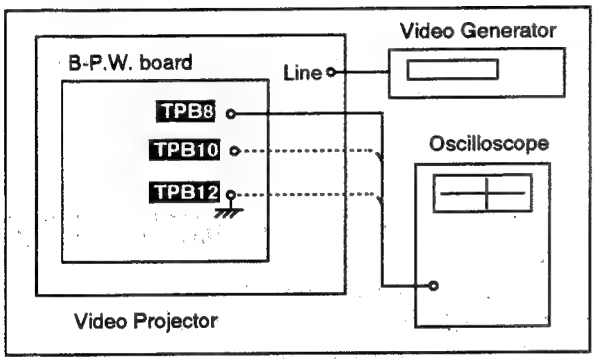


Fig. 42

3. Adjust R3534 (Colour shading correction) to achieve waveform as shown in Fig. 43.

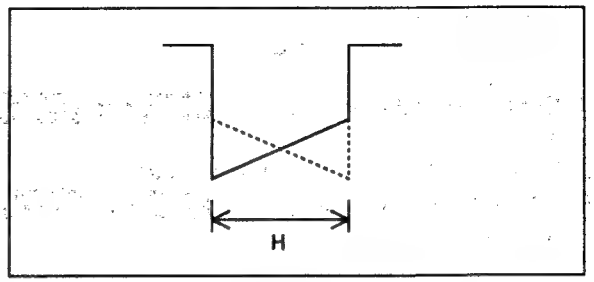


Fig. 43

4. Connect an oscilloscope to TPB10 and TPB12 (earth).
5. Confirm that the waveform is Fig. 43.
6. Set R3534 (Colour shading correction) to no correcting.

H. Luminance Shading Correction Adjustment (B-P.W. board)

1. Equipment to used
Oscilloscope
Video Generator

2. Initialize Condition
Brightness control ..... Centre
Picture control ..... Max.
Colour control ..... Min.

3. Adjustment Procedure
1. Input a monoscope pattern signal to line input terminal.
2. Connect an oscilloscope to TPB8 and TPB12 (earth).

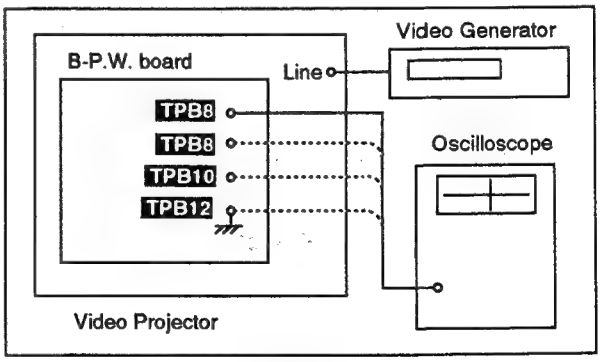


Fig. 44

3. Adjust R3526 (H. Luminance shading correction) to achieve waveform as shown in Fig. 45.

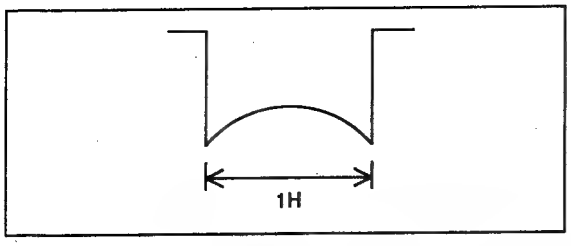


Fig. 45

4. Confirm that the waveform at TPB9 and TPB10 are the same.
5. Fully turn R3526 to counterclockwise.
6. Connect an oscilloscope to TPB8 and TPB12 (earth).
7. Adjust R3518 (C.B.H. saw) to achieve waveform as shown in Fig. 46.

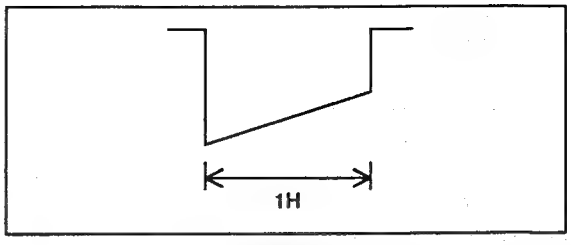


Fig. 46

8. Confirm that the waveform at TPB9 and TPB10 are the same.
9. Fully turn R3518 to clockwise.

V. Luminance Shading Correction Adjustment (B-P.W. board)

1. Equipment to used

Oscilloscope
Video Generator

2. Initialize Condition

Brightness control ..... Centre
Picture control ..... Max.
Colour control ..... Min.

3. Adjustment Procedure

1. Input a monoscope pattern signal to line input terminal.
2. Connect an oscilloscope to TPB8 and TPB12 (earth) as shown in Fig. 44.

3. Adjust R3512 (V. Luminance shading correction) to achieve waveform as shown in Fig. 47.

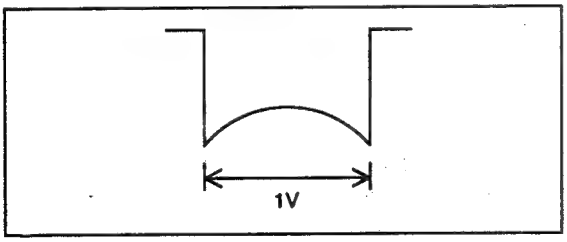


Fig. 47

4. Confirm that the waveform at TPB9 and TPB10 are the same.
5. Fully turn R3512 to counterclockwise.
6. Adjust R3519 (V. Luminance shading correction) to achieve waveform as shown in Fig. 48.

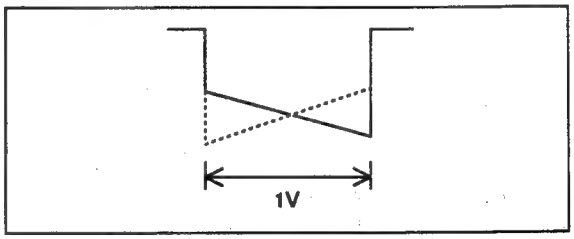


Fig. 48

7. Confirm that the waveform at TPB9 and TPB10 are the same.
8. Turn R3519 to centre.

Installation and Adjustment Procedure

CAUTIONS: For the setting and adjustment, follow the selected procedure in [Table 2].
By taking an erroneous procedure, any adjustment may be useless.

[Table 1] Screen Size and Projection Mode

Model / Screen Size	PT-B1010E			PT-B1010EF		
	Front Ceiling	Rear Ceiling	Rear Ceiling with Mirror	Front Floor	Rear Floor	Rear Floor with Mirror
203.2~218.4 cm (80~86 inches)	(B)	(A)	(B)	(B)	(A)	(B)
221~276.9 cm (87~109 inches)	(D)	(C)	(D)	(D)	(C)	(D)
279.4~304.8 cm (110~120 inches)	(B)	(A)	(B)	(B)	(A)	(B)

[Table 2] Installation Procedure and Necessary Adjustment.

No.	PROCEDURE	(A)	(B)	(C)	(D)
1	Projection Size Adjustment	YES	YES	NO	NO
2	Installation	YES	YES	YES	YES
3	Verification of Image Position	YES	YES	YES	YES
4	Preparation for Adjustment	YES	YES	YES	YES
5	Deflection Change	YES	NO	YES	NO
6	Shading Correction	◆	◆	◆	◆
7	Lens Focus Adjustment	YES	YES	YES	YES
8	Electromagnetic Focus Adjustment	◆	◆	◆	◆
9	Picture Amplitude Adjustment	◆	◆	◆	◆
10	Static Convergence Adjustment	YES	YES	YES	YES

◆ If necessary

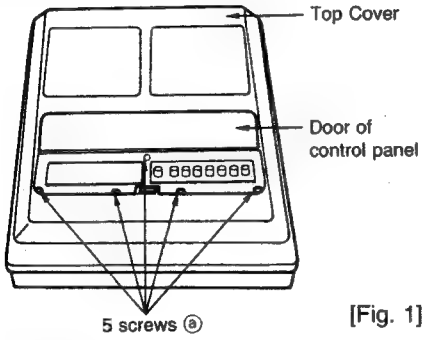
1. Projection Size Adjustment

When Changing the Screen Size, Follow the Steps as Shown Below.

For PT-B1010E/PT-B1010EF, projection size can be changed by an adjustment of CRT position (Red and Blue). In case of this model, change can be made within the range of 203.2~304.8 cm (80~120 inches).

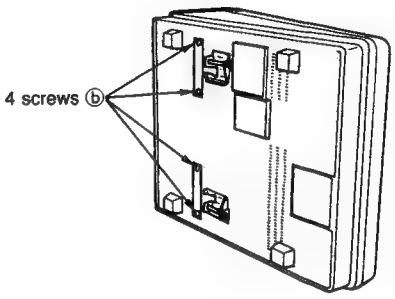
If a different screen size is desired, perform the following adjustment, step [1]~[9].

[1] Open the door of the control panel, and remove 5 screws ⓐ in [Fig. 1].
Then pull the Top Cover toward the back side of the deck and carefully lift it to remove.



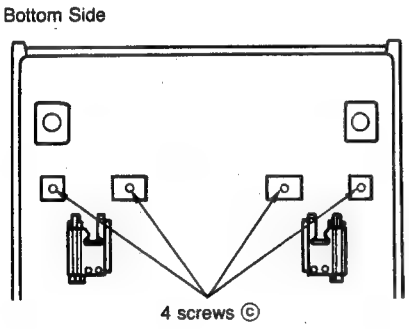
[Fig. 1]

[2] Place the unit on its side as illustrated [Fig. 2], and remove 4 screws ⓑ.
Then remove the covers of the adjusting holes.



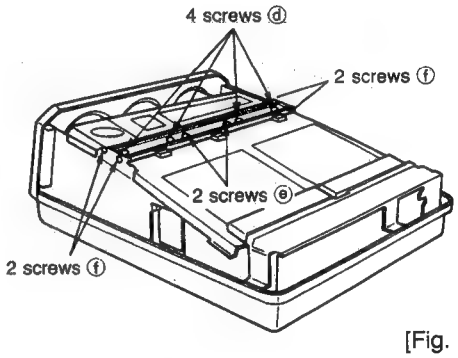
[Fig. 2]

[3] Loosen 4 screws ⓒ two or three turns.
(Do not remove these screws.)



[Fig. 3]

[4] Return the unit to its original position, and remove 4 screws ⓓ in [Fig. 4].



[Fig. 4]

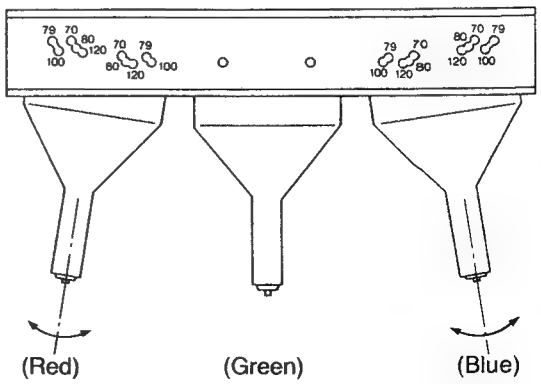
[5] Adjust the positions of the Red and Blue CRTs for the desired projection size as shown in [Table 3] and [Fig. 5].

Note: If you have difficulty adjusting the CRTs, loosen 2 screws ⓔ and 4 screws ⓕ as in [Fig. 4] slightly.
Be sure to re-tighten after adjustment.

PT-B1010E/PT-B1010EF

Display Value	Corresponding Size
80	203.2~218.4 cm (80~86 inches)
100	221~276.9 cm (87~109 inches)
120	279.4~304.8 cm (110~120 inches)

[Table 3]



[Fig. 5]

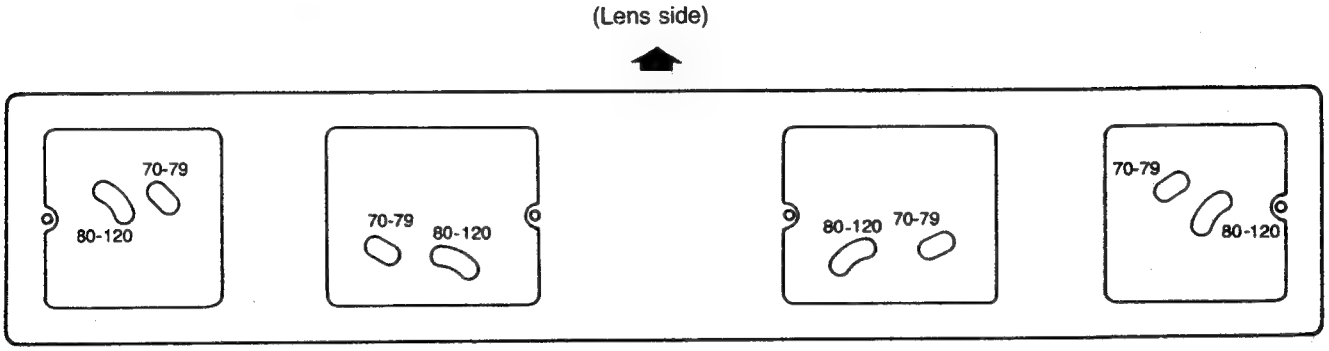
[6] After insuring the proper CRT positions, tighten the 4 screws ⓓ in [Fig. 4].

[7] Place the unit on its side, and tighten 4 screws ⓒ in [Fig. 3].

[8] Re-place the covers of the adjusting holes and tighten 4 screws ⓑ in [Fig. 2].

[9] After ensuring that a proper picture is displayed, re-place the Top Cover and tighten 5 screws ⓐ in [Fig. 1].

Note: The figure below [Fig. 6] is an enlargement of adjustment holes [Fig. 3].
Please tighten the screws ⓒ and fix CRTs within the areas that are displayed as "80 - 120" in the diagram below.



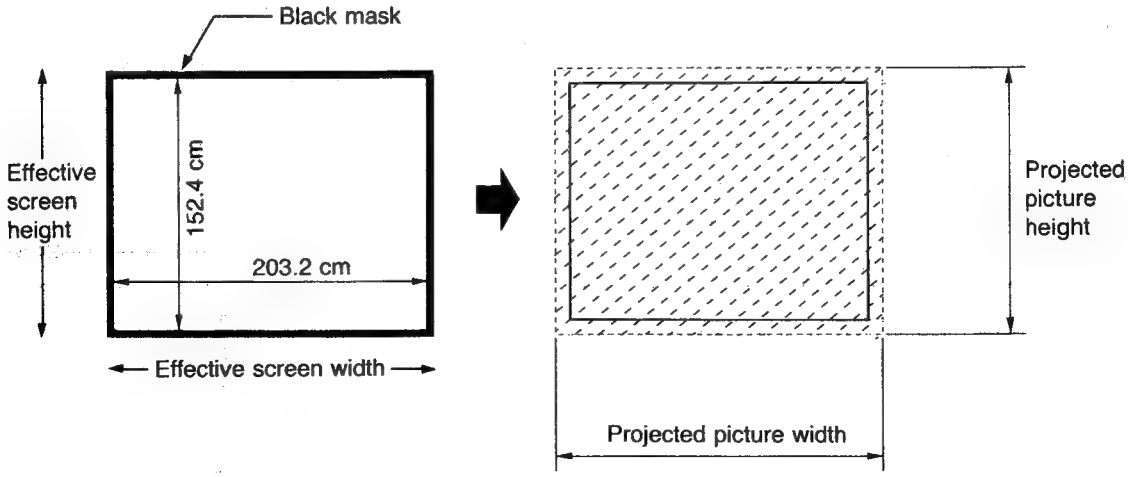
[Fig. 6]

2. Installation

Screen Size

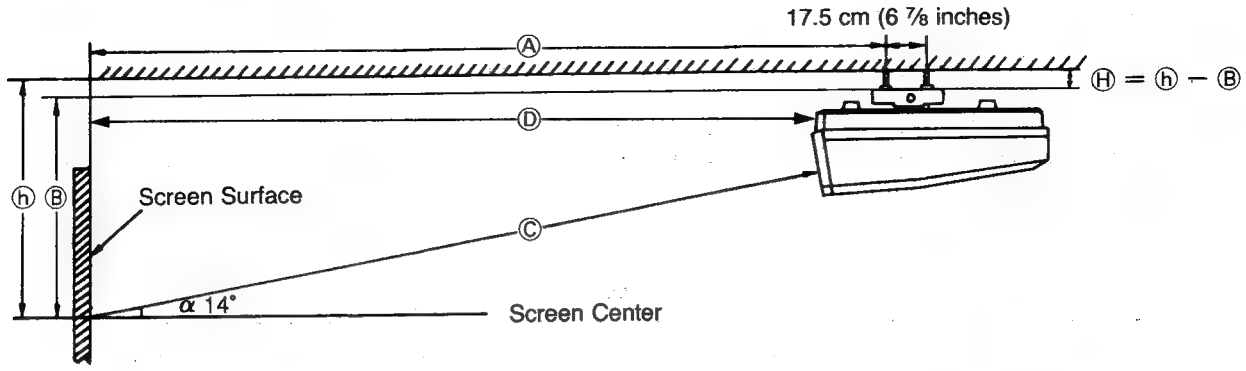
Provide a black border around the edges of the screen.
The projection distance for this video projector is specified to project a picture approximately 5% larger than the effective dimensions of the screen in order to prevent splintering of the picture around the edges.

Provide a black border around the edges of the screen so that the portions of the picture extending beyond the effective dimensions of the screen are not visible.
Note that, depending on the manufacturer, some standard screens already come equipped with a black mask.

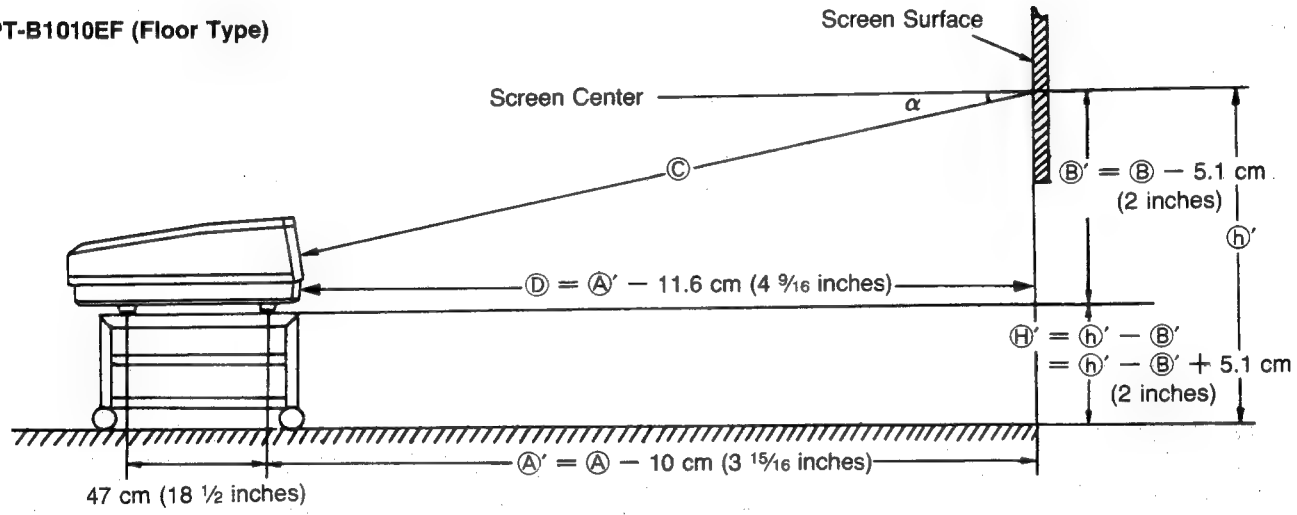


1 Standard Setting Position

PT-B1010E (Ceiling Type)



PT-B1010EF (Floor Type)

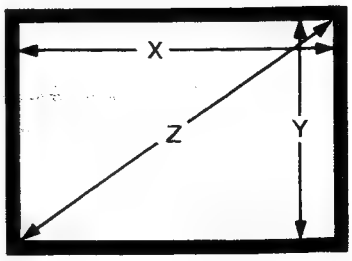


[Table 4]. Relationship between picture size and mounting distance.

Screen Size (Z)	Width (X)	Height (Y)	Ⓐ	Ⓑ	Ⓒ	Ⓓ
304.8 (120)	243.8 (96)	182.9 (72)	366.0 (144)	112.4 (44.3)	358.6 (141.2)	344.4 (135.6)
279.4 (110)	223.5 (88)	167.6 (66)	339.0 (133.5)	105.9 (41.7)	330.8 (130.2)	317.4 (125)
254 (100)	203.2 (80)	152.4 (50)	308.2 (121.3)	98.2 (38.7)	298.9 (117.7)	286.6 (112.8)
228.6 (90)	182.9 (72)	137.2 (54)	279.2 (109.9)	91.2 (35.9)	269.0 (105.9)	257.6 (101.4)
203.2 (80)	162.6 (64)	121.9 (48)	253.2 (99.7)	84.1 (33.1)	242.0 (95.3)	231.6 (91.2)

Note: Unit of Z, X, Y, Ⓐ, Ⓑ, Ⓒ and Ⓓ is cm and (inches).

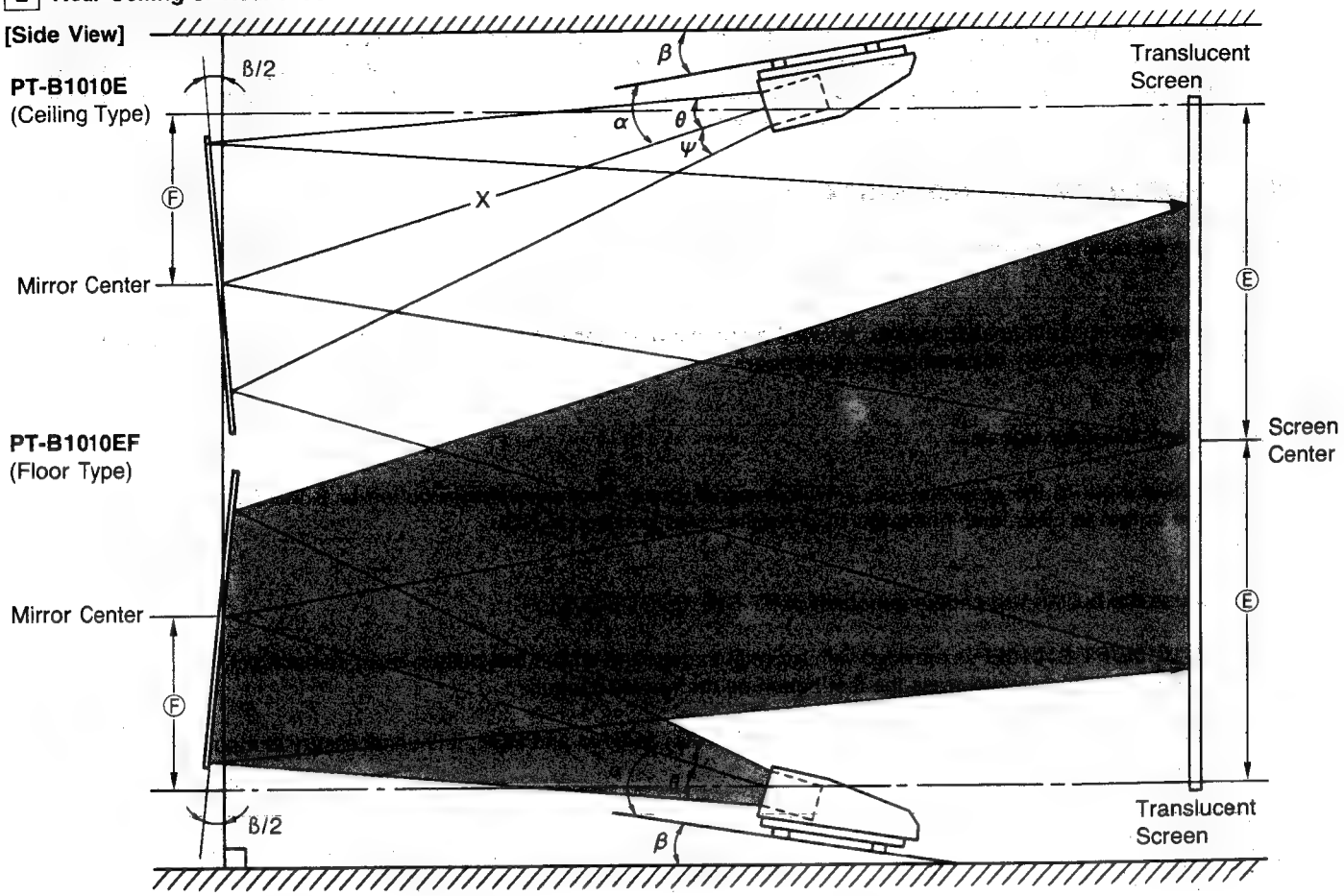
Ⓐ: Distance from screen to center of hole in the front holding bolt.
Ⓑ: Distance from mounting plate bottom to center of screen.
Ⓒ: Distance from screen center to lens surface.
Ⓓ: Distance from screen to front edge.



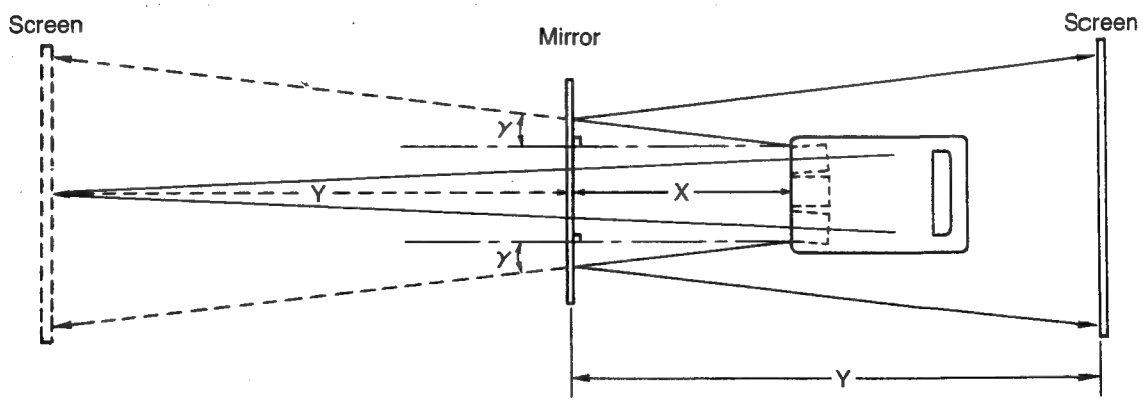
For conventional flat screen
(Aspect ratio 3 × 4)
X: Picture width
Y: Picture height
Z: Diagonal Picture size

2 Rear Ceiling or Rear Floor with Mirror

[Side View]



[Top View]



- In case of mirror use for installation, please refer to above figures and [Table 5] to determine mounting distance and mirror size. In addition, the formula for each distance is as below.
  - X + Y = Ⓒ
  - Ⓕ = X · Sin (α + β)
  - Ⓔ = Y · Sin α + Ⓕ

Note: 1. Ⓒ... Distance from screen center to lens surface. (Throw Distance)
2. Ⓕ... Height between mirror center and lens center line.
3. Ⓔ... Height between screen center and lens center line.

[Example]

Screen Size	θ	ψ	γ
304.8 cm	13.6°	12.3°	15.4°
254 cm	13.4°	12.2°	14.7°
203.2 cm	12.8°	11.8°	13.5°

[Table 5]

3. Verification of Image Position

Turn ON the unit and any other equipment connected to it, and project an image on the screen.
Check that the projected image matches the screen position. If the projected image is either too high or low, or to the right or left of the screen, or if the image is bigger at top or bottom or left or right, there is probably an error in the way the equipment was installed and all dimensions should be carefully rechecked.

4. Preparation for Adjustment

● Cautions for setting adjustments.

For the sequence of setting adjustments, follow the procedure in [Table 2]. Following an erroneous adjustment procedure may result in extreme difficulty in converging unit properly.

● Selection of the input signals.

If the signal input to the projector is a S-VIDEO signal, press the input selector button to S-VIDEO; if it is a LINE signal, press the button to LINE; and if they are RGB signals, set the button to RGB.

● How to use the built-in test pattern generator in PT-B1010E/PT-B1010EF

1. PT-B1010E/PT-B1010EF is provided with a circuit to generate built-in test pattern of cross-hach pattern.
   For projecting this pattern press the test button on the remote control.

Note: For projecting the built-in test pattern in NTSC, PAL, SECAM and RGB, it is unnecessary to input a sync signal externally.

• Warming up
Allow a warming up time of at least approximately 30 minutes with the image being projected so that the functions of the video projector have a chance to become stable.

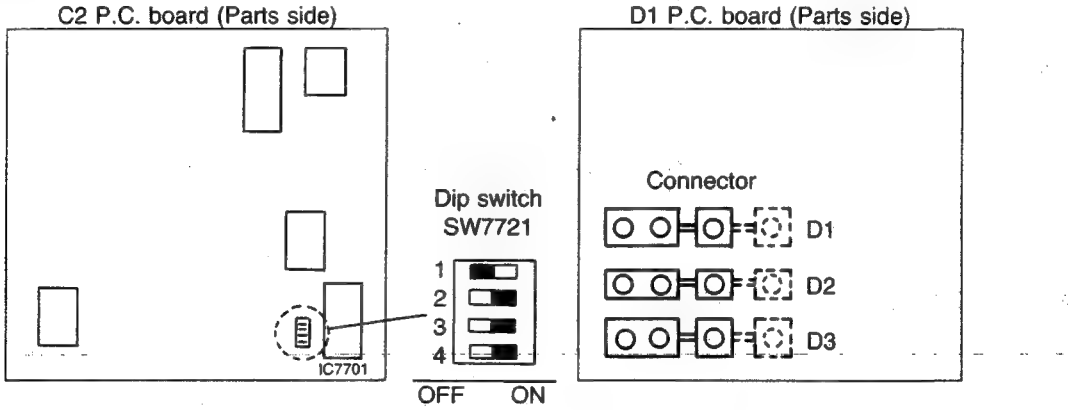
5. Deflection Change

When changing the setting of this unit it may be necessary to reposition certain connectors and a switch associated with deflection.
When a connector position or switch setting is not suitable for the setting specification, this unit may not operate properly, then, be sure to make deflection connectors and a switch change as shown below.

1. Turn OFF the Main Power switch.

2. Change the deflection circuit by repositioning the connectors on the D1 (TNP 101683) P.C. board and dip switch (NO. 3 and NO. 4 of SW7721) on the C2 (TNP 101685) P.C. board which allows the PT-B1010E/PT-B1010EF to be configured for various projection modes.

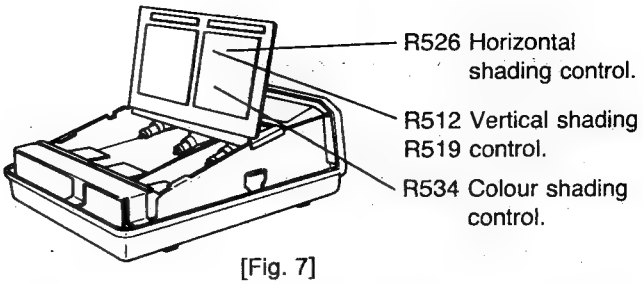
WARNING:
The connectors; D1, D2 and D3 are designed to fit easily onto the connector pins on the P.C. board.
They must be reversed (180°) when changing the deflection direction. The unit will not function properly if the connectors are improperly inserted.



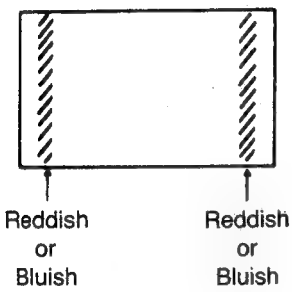
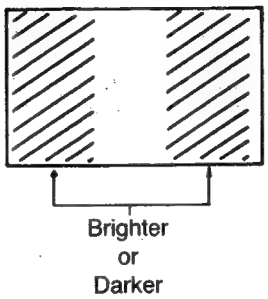
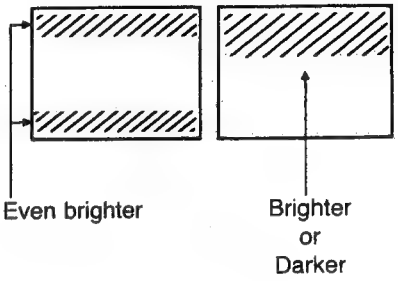
Model Name	Projection Mode	Positioning		
		Dip switch SW7721		Connector D1, D2, D3
		NO.3	NO.4	
PT-B1010E	Front or Rear Ceiling with Mirror	ON	ON	
	Rear Ceiling	ON	OFF	
PT-B1010EF	Front or Rear Floor with Mirror	OFF	ON	
	Rear Floor	OFF	OFF	

6. Shading Correction

Input a white pattern or snow noise signal and turn the Colour Control fully counterclockwise. If brightness our colour appears uneven, adjust the following controls on B-board. [Fig. 7]



[Fig. 7]

R534	R526	R512 R519
		
Adjust the colour shading control (R534), so that entire picture is white.	Adjust the Horizontal shading control (R526), so that the Brightness level is even across the screen.	Adjust the Vertical shading control (R512), (R519).

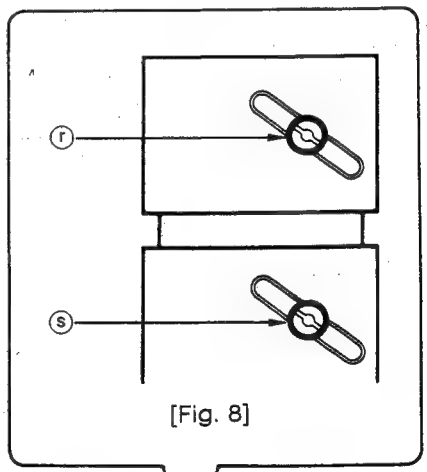
7. Lens Focus Adjustment

This operation should only be carried out if there is any difficulty focusing the image. In the focus is re-adjusted, the convergence will be disturbed and will have to be re-adjusted.

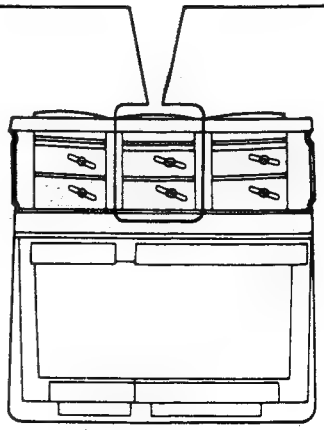
BEFORE LENS FOCUS ADJ.

Before adjusting the lens focus, the A-board bracket must be raised and replaced in the unit in the raised position.
Reposition the A-board bracket according to the procedure described on page 13 "Instructions for raising of the A-board bracket".

Note: Before adjusting the lens focus, please take about more than 30 minutes of warm-up time projecting images until the condition of this unit gets stable.



[Fig. 8]



METHOD OF ADJUSTING FOCUS

1) Select one of the RED, GREEN, or BLUE projection CRTs for adjustment. (The other two CRTs should be fitted with lens covers.)

2) Rotate the lens of the out-of-focus projection CRT after releasing the screw ⓢ (used to fix the projection lens). Adjust the lens to the point at which the scanning lines can be most clearly seen (other lenses covered). [Fig. 8]

3) Fully tighten and secure adjust the screw ⓢ.

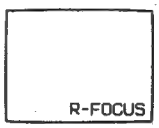
4) Loosen the screw ⓡ, and adjust the peripheral (corner) focus.

5) Tighten the screw ⓡ of the projection lens. Then, adjust the two remaining lenses in the same procedure.

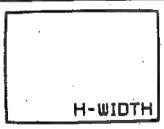
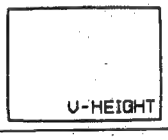
6) Remove all lens covers.

8. Electromagnetic Focus Adjustment

The electromagnetic focus should be adjusted when it is not possible to obtain the optimum focus even after adjusting the lens focus.

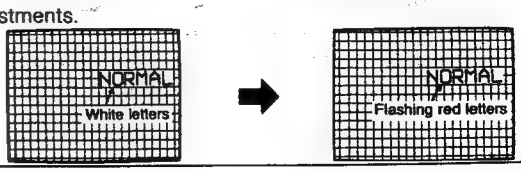
Step	Button operation	Description
1	TEST	Display the crosshatch pattern.
2	Press the lens caps on the lenses other than that for the colour being adjusted. Do not attempt to use the RGB selector button for the adjustment of the electromagnetic focus. This would cause a slight increase in beam current in each CRT which could effect the accuracy of the focus.	
3	R-FOCUS or G-FOCUS or B-FOCUS	EX. R-Focus button 
4	CONTROL LEVEL (−) (+)	

9. Picture Amplitude Adjustment

Item	Button operation	Description
Horizontal amplitude adjustment	H-WIDTH → CONTROL (−) (+)	
Vertical amplitude adjustment	V-HEIGHT → CONTROL (−) (+)	

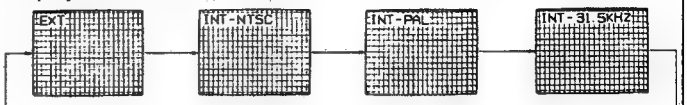
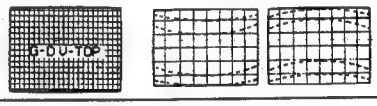
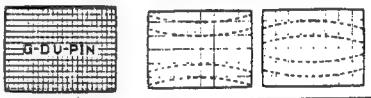
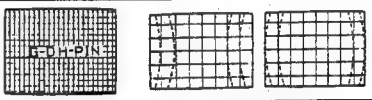
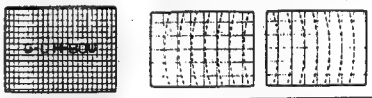
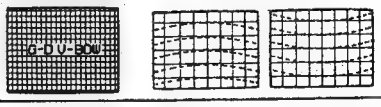
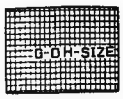
Do not attempt to adjust the picture amplitude by pressing the test button to project the crosshatch pattern.
The picture amplitude may be slightly different between the test pattern and the external signal.

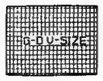
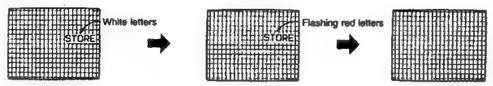
10. Convergence

Item	Button operation	Description
Standard setting	BRIGHT or PICTURE → STANDARD	 
Normal setting	NORMAL → NORMAL	The conditions will be returned to those prior to the adjustments. 
Cancel	NORMAL	The button can only be used to cancel the operation when the store button or normal button has been pressed just once.

① **Green dynamic convergence adjustment**
Because this adjustment is the reference standard for all of the convergence adjustments, check the entire picture carefully when making the adjustment.

The button operation steps for adjusting the green dynamic convergence are as shown in the following chart. (If any parts of the adjustments are unnecessary, skip those adjustment steps.)

Step	Item	Button operation	Description
1	Test	TEST → EXT/INT	The buttons related to the distortion or convergence adjustments will only function while the crosshatch is being displayed. Each time the button is pressed, the sync mode will change and be displayed on-screen. 
2	G	G → DYNAMIC	Selects the green dynamic convergence adjustment mode. 
3	Horizontal Keystone distortion adjustment (H-KEYSTONE)	H-KEYSTONE → CONVERGENCE LEVEL	
4	Vertical Keystone distortion adjustment (V-KEYSTONE)	V-KEYSTONE → CONVERGENCE LEVEL	
5	Vertical upper pincushion distortion adjustment (V-TOPPIN)	V-TOPPIN → CONVERGENCE LEVEL	
6	Vertical pincushion distortion adjustment (V-PIN)	V-PIN → CONVERGENCE LEVEL	
7	Horizontal pincushion distortion adjustment (H-PIN)	H-PIN → CONVERGENCE LEVEL	
8	Skew adjustment (SKEW)	SKEW → CONVERGENCE LEVEL	
9	Horizontal bow adjustment (H-BOW)	H-BOW → CONVERGENCE LEVEL	
10	Vertical bow adjustment (V-BOW)	V-BOW → CONVERGENCE LEVEL	
11	Vertical linerarity adjustment (V-LINEAR)	V-LINEAR → CONVERGENCE LEVEL	
12	Horizontal linearity adjustment (H-LINEAR)	H-LINEAR → CONVERGENCE LEVEL	
13	Horizontal size adjustment (H-SIZE)	H-SIZE → CONVERGENCE LEVEL	**Caution:** If the horizontal size adjustment designation button is operated during the green dynamic convergence adjustment mode, the value set using the horizontal amplitude (H-WIDTH) button will change. 

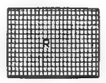
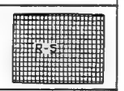
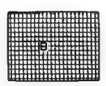
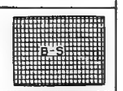
Step	Item	Button operation	Description
14	Vertical size adjustment (V-SIZE)	V-SIZE → CONVERGENCE LEVEL	**Caution:** If the vertical size adjustment designation button is operated during the green dynamic convergence adjustment mode, the value set using the vertical amplitude (H-HEIGHT) button will change. 
15	Store	STORE	After the convergence has been adjusted, this button is used to store the adjustment results in the memory. The adjustment results are stored in the memory by pressing the button twice consecutively. Press the button once again. The "STORE" display will change to red letters and begin flashing on and off. After approximately 30 seconds, the on-screen display will go out, indicating that the adjustment results have been stored in the memory.  **Caution:** After the convergence has been adjusted, if the store button is not used to store the adjustment results in the memory, the adjustment results will be erased when the video projector's input is changed or the power is switched off. No button operations will be valid while the red letters of the on-screen display of "STORE" are flashing. In addition, be careful not to set the main power switch to "OFF" during this condition, because doing so will cause the adjustment results to be erased.

※ If the static convergence adjustment or other dynamic convergence adjustments are going to be made immediately after the green dynamic convergence adjustment, the operation of the store button can be omitted.

Note:
Steps 13 and 14 are normally not necessary.

② Static convergence adjustment

The button operation steps for adjusting the static convergence immediately after the green dynamic convergence adjustment are as shown in the following chart.

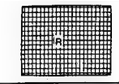
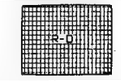
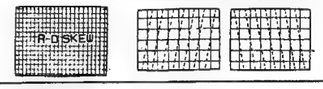
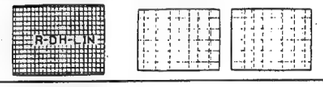
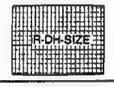
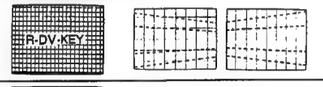
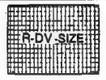
Step	Item	Button operation	Description
1	R → G R → G•B	R-G or R-G•B	If this button is used to adjust the static convergence, it is possible to make the adjustment without having to press the test button in order to display the crosshatch pattern. If this button is mistakenly pressed while the test pattern is not being displayed, press the test button twice. 
2	Static	STATIC	
3	Cursor movement	▲ ▼ ◀ ▶	The cursor movement buttons are operated in order to adjust the red static convergence. 
4	B → G B → R•G	B-G or B-R•G	
5	Static	STATIC	
6	Cursor movement	▲ ▼ ◀ ▶	The cursor movement buttons are operated in order to adjust the blue static convergence.
7	Store	STORE	The store button is pressed twice in order to store the adjustment results in the memory.

• If the other dynamic convergence adjustments or the point convergence adjustment are going to be made immediately after the static convergence adjustment, the operation of the store button can be omitted.

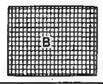
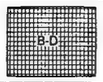
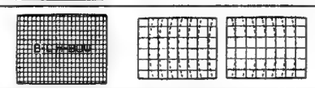
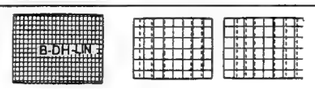
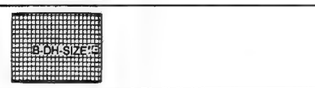
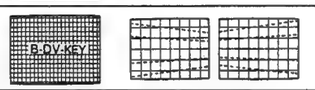
③ Red and blue dynamic convergence adjustments

Perform these adjustments after adjusting the green dynamic convergence and the static convergence.
(If any parts of the adjustments are unnecessary, skip those adjustment steps.)

• Red dynamic convergence adjustment

Step	Item	Button operation	Description
1	R → G R → G•B	R-G or R-G•B	
2	Dynamic	DYNAMIC	
3	Skew adjustment (SKEW)	SKEW → CONVERGENCE LEVEL	
4	Horizontal bow adjustment (H-BOW)	H-BOW → CONVERGENCE LEVEL	
5	Horizontal Linearity adjustment (H-LINEAR)	H-LINEAR → CONVERGENCE LEVEL	
6	Horizontal size adjustment (H-SIZE)	H-SIZE → CONVERGENCE LEVEL	
7	Vertical Keystone distortion adjustment (V-KEYSTONE)	V-KEYSTONE → CONVERGENCE LEVEL	
8	Vertical size adjustment (V-SIZE)	V-SIZE → CONVERGENCE LEVEL	

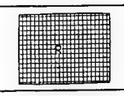
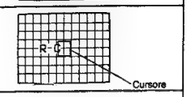
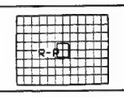
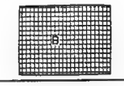
• Blue dynamic convergence adjustment

Step	Item	Button operation	Description
1	B → G B → G•B	B-G or B-R·G	
2	Dynamic	DYNAMIC	
3	Skew adjustment (SKEW)	SKEW → CONVERGENCE LEVEL − +	
4	Horizontal bow adjustment (H-BOW)	H-BOW → CONVERGENCE LEVEL − +	
5	Horizontal Linearity adjustment (H-LINEAR)	H-LINEAR → CONVERGENCE LEVEL − +	
6	Horizontal size adjustment (H-SIZE)	H-SIZE → CONVERGENCE LEVEL − +	
7	Vertical Keystone distortion adjustment (V-KEYSTONE)	V-KEYSTONE → CONVERGENCE LEVEL − +	
8	Vertical size adjustment (V-SIZE)	V-SIZE → CONVERGENCE LEVEL − +	
9	Store	STORE	The store button is pressed twice in order to store the adjustment results in the memory.

※ If the point convergence adjustment is going to be made immediately after the red and blue dynamic convergence adjustments, the operation of the store button can be omitted.

④ **Point convergence adjustment**

Perform this adjustment if localized misalignments are still uncorrected even after the dynamic convergence adjustments have been completed.

Step	Item	Button operation	Description
1	R → G R → G•B	R-G or R-G·B	
2	Cursor	CURSOR	
3	Cursor movement	▲ ▼ ◀ ▶	Moves the cursor to the location to be adjusted.
4	Point	POINT	
5	Cursor movement	▲ ▼ ◀ ▶	Adjusts the incremental convergence at the region of the cursor.
6	Repeat steps 2 through 5 to adjust the locations where the red convergence is misaligned.		
7	B → G B → R•G	B-G or B-R·G	
8	Repeat steps 2 through 6 to adjust the locations where the blue convergence is misaligned.		
9	Store	STORE	The store button is pressed twice in order to store the adjustment results in the memory.

- When adjusting the outer edges of the image, move the cursor outward to a location where two cursors are displayed, and then make the adjustment.
- Be sure to press the store button twice when the adjustments have been completed.

Checking procedures for C2-B.W. board (TXANPC2DD4)

The C2-P.W. board can not be repaired. If any one of the following abnormal phenomena occurs, check the C2-P.W. board by referring to the section Checking procedures. If a fault is confirmed, replace the C2-P.W. board.

C2-P.W. board circuit construction
- Digital convergence circuit
- System control circuit

Abnormal phenomena

- Horizontal bands of irregular brightness are visible on the screen.
  (The intervals between adjoining horizontal scan lines are not constant and show irregular variation.)

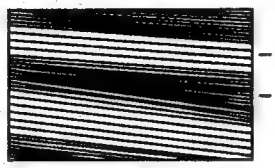


Fig. 1

- Mainly vertical lines bend discontinuously.

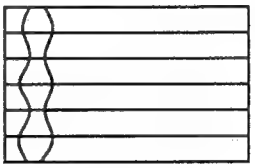


Fig. 2

- Mainly horizontal lines oscillate slightly.

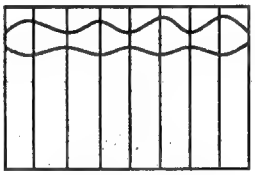


Fig. 3

- Internal test pattern can not be output.

Digital Convergence

- On-screen display not effective.
- Inputs (RGB/VIDEO, S-VIDEO/LINE) can not be selected.
- SYNC selection (EXT/INT) inoperative.
- Test pattern ON/OFF switching inoperative.
- Notch ON/OFF switching inoperative
- Selection among 4 systems inoperative.
- VIDEO-MUTE inoperative.

- Digital-to-analog converter control signal failure
  - Convergence adjustment (in analog) inoperative.
  - Focus adjustment inoperative.
  - H. shift adjustment inoperative
  - Volume can not be adjusted.
  - Video adjustments (COLOUR, TINT, BRIGHT, PICTURE, SHARPNESS) inoperative.
  - Colour temperature can not be adjusted.

System Control Circuit

Checking procedures

1. If the internal test pattern does not appear:

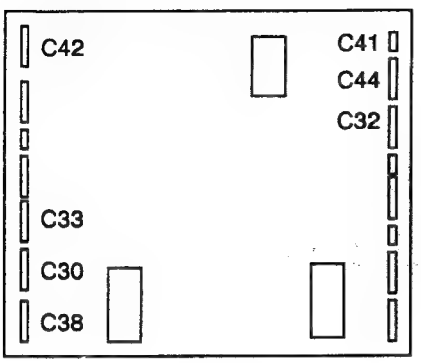
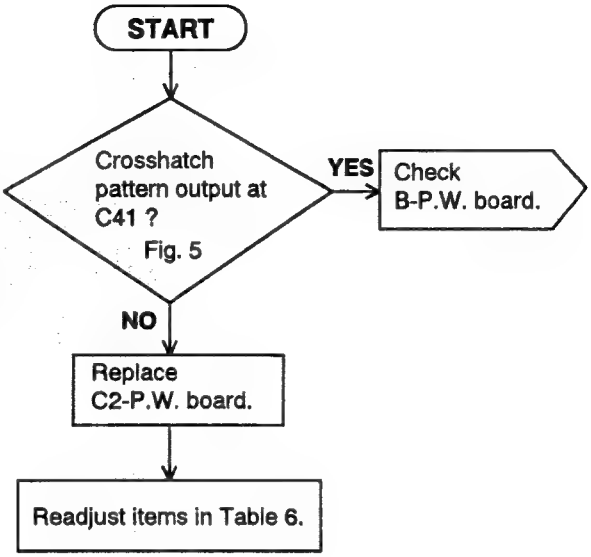


Fig. 4



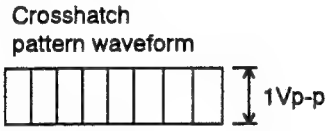


Fig. 5

2. If the digital convergence circuit fails:

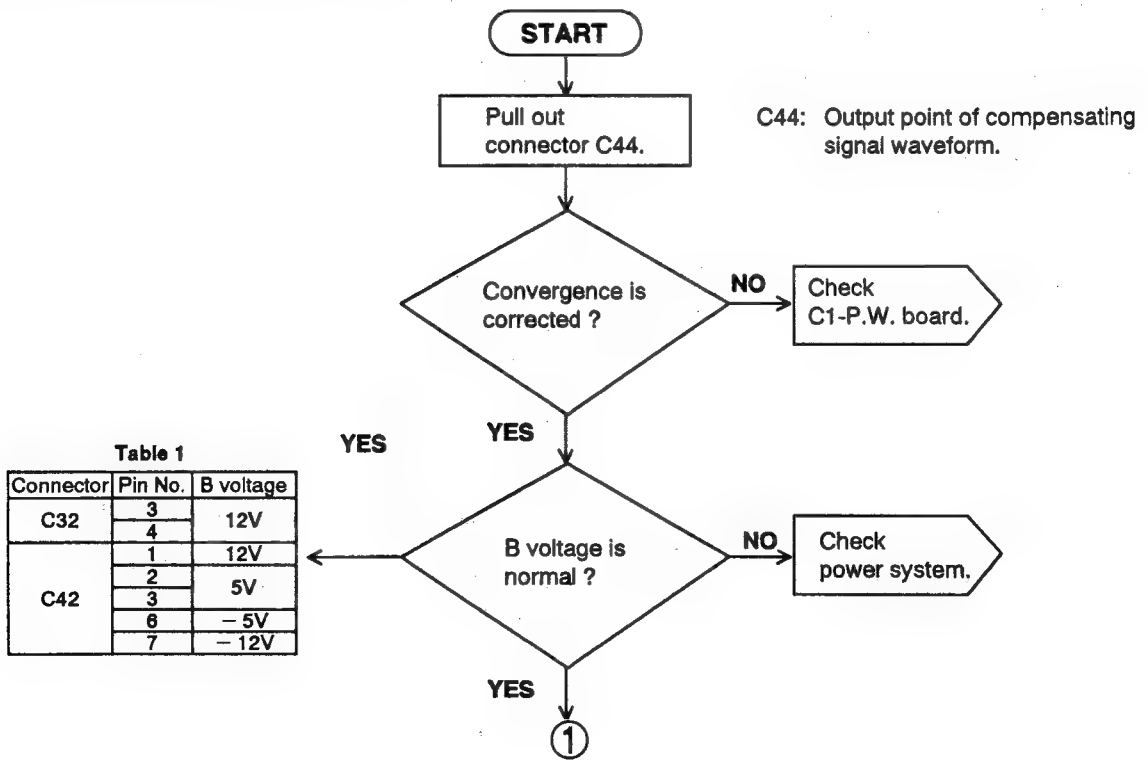


Table 1

Connector	Pin No.	B voltage
C32	3	12V
	4	
C42	1	12V
	2	5V
	3	
	6	− 5V
	7	− 12V

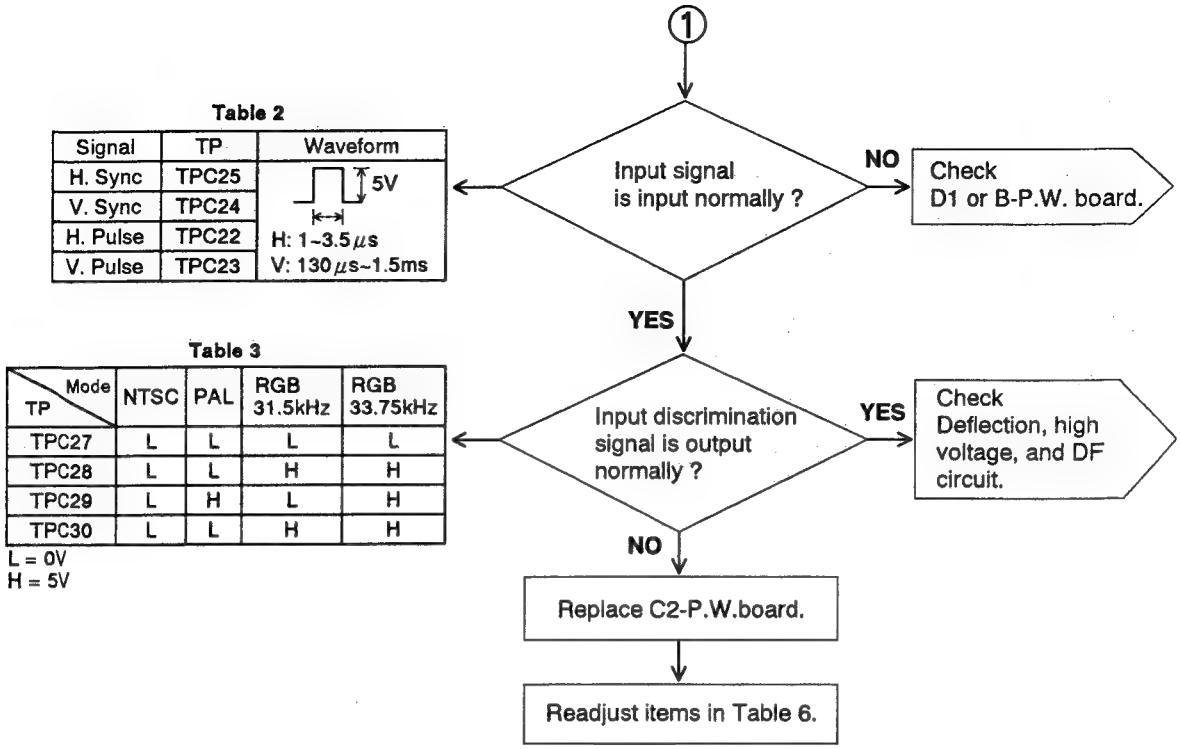


Table 2

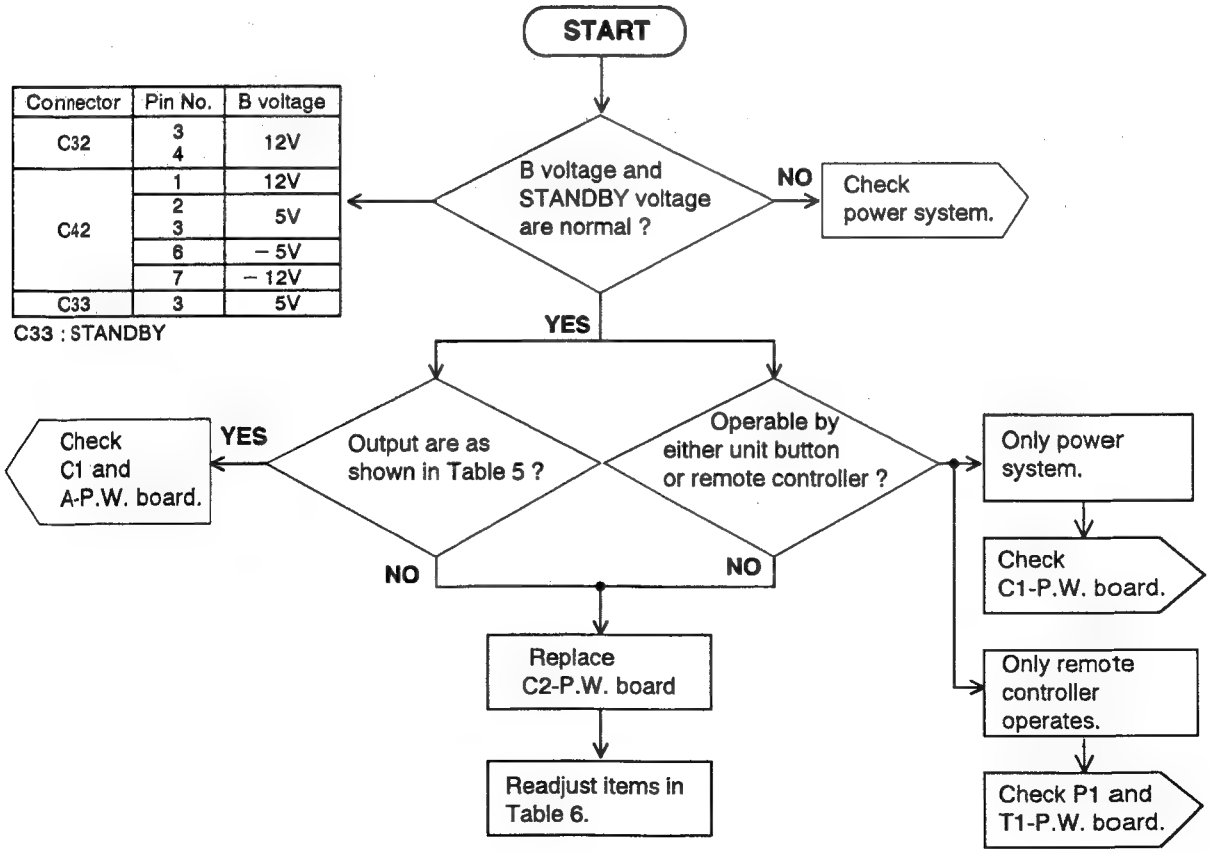
Signal	TP	Waveform
H. Sync	TPC25	5V
V. Sync	TPC24	
H. Pulse	TPC22	H: 1~3.5μs
V. Pulse	TPC23	V: 130μs~1.5ms

Table 3

Mode / TP	NTSC	PAL	RGB 31.5kHz	RGB 33.75kHz
TPC27	L	L	L	L
TPC28	L	L	H	H
TPC29	L	H	L	H
TPC30	L	L	H	H

L = 0V
H = 5V

3. If the system control circuit fails:



Connector	Pin No.	B voltage
C32	3 4	12V
C42	1	12V
	2 3	5V
	6	− 5V
	7	− 12V
C33	3	5V

C33 : STANDBY

Table 5

Output	Connector	Pin No.	Mode	H/L
Notch	C30	①	ON	H
			OFF	L
Test		③	ON	H
			OFF	L
TV System Selector	C30	④	PAL	H
			SECAM	H
			M-NTSC	L
			NTSC	L
		⑤	PAL	H
			SECAM	L
			M-NTSC	H
			NTSC	L
		⑥	PAL	H
			SECAM	H
			M-NTSC	H
			NTSC	H

Output	Connector	Pin No.	Mode	L/H
Input Selector	C30	②	S-VIDEO	H
			LINE	L
	C38	⑦	RGB	H
			VIDEO	L
On-Screen Display	C38	①	YS	H
		②	B	
		③	G	
		④	R	
Sync. Selector		⑧	EXT INT	H
				L
Video Mute		⑥	ON	H
			OFF	L

Table 6

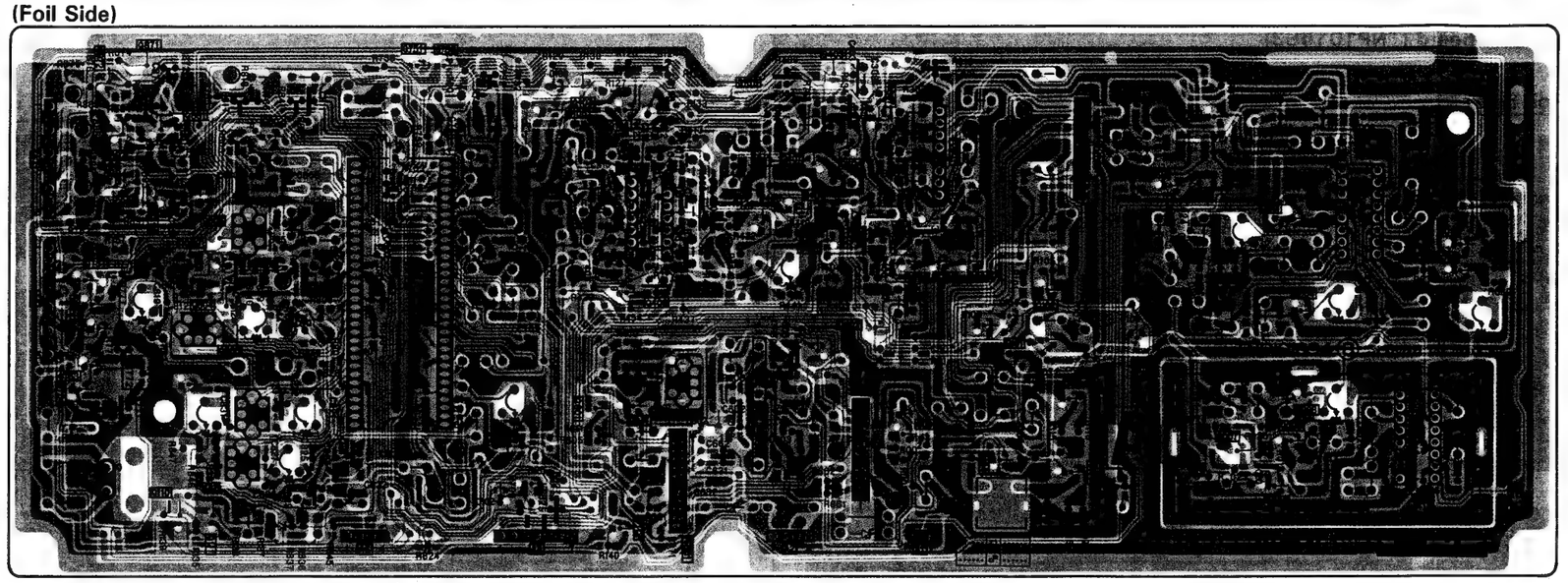
Readjust the following items:

- Green raster ADJ.
- Static convergence ADJ.
- Dynamic convergence ADJ.
- Focus ADJ.
- H. SHIFT ADJ.
- Volume ADJ.
- Video ADJ. (COLOUR, TINT, BRIGHT, PICTURE, SHARPNESS)
- Colour temp. ADJ.

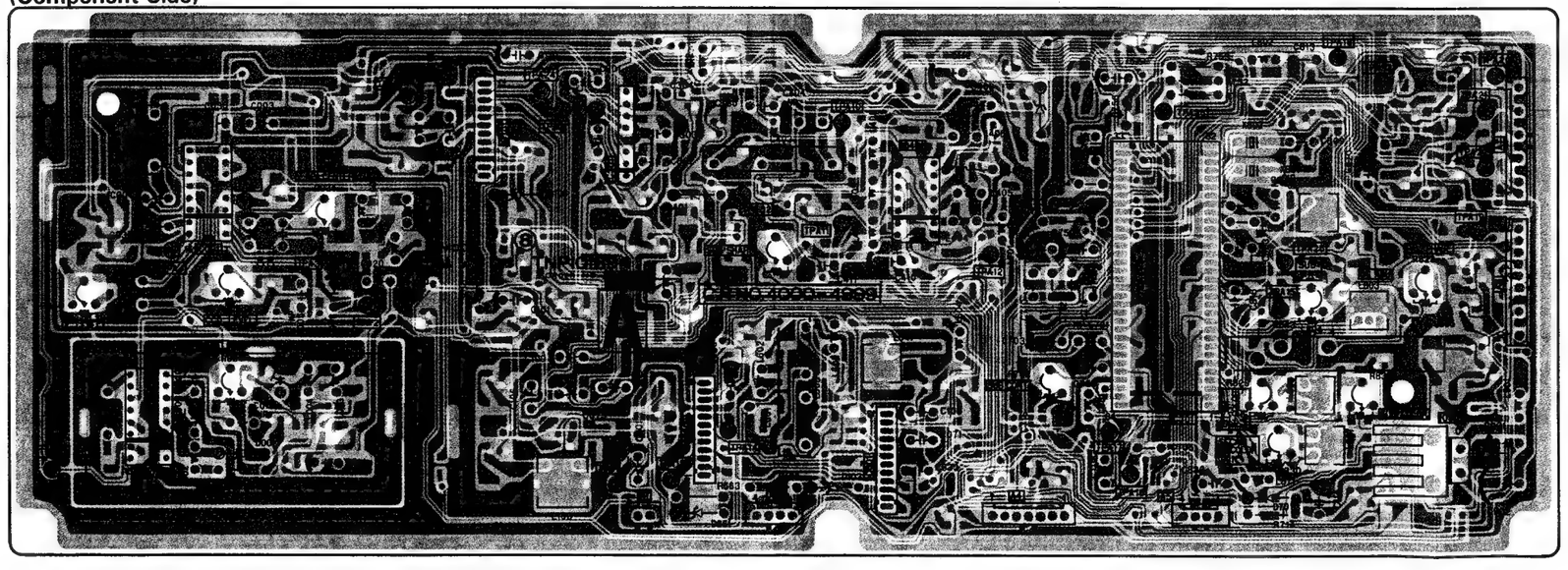
Circuit Boards

A-P.W. board (TNP101694)

(Foil Side)



(Component Side)



A-P.W. Board (FOIL SIDE)	
TRANSISTOR	
Q4001	D-4
Q4002	E-5
Q4003	E-5
Q4004	E-6
Q4005	D-6
Q4006	A-5
Q4007	A-5
Q4008	D-6
Q4009	E-6
Q4010	E-6
Q4011	E-5
Q4101	E-4
Q4102	E-5
Q4103	E-3
Q4104	D-4
Q4105	A-5
Q4106	A-5
Q4107	E-3
Q4108	E-3
Q4109	E-3
Q4110	D-1
Q4111	D-1
Q4112	D-3
Q4304	E-4
Q4305	E-4
Q4306	E-4
Q4307	E-4
Q4308	E-4
Q4401	E-4
Q4402	E-4
Q4403	E-4
Q4404	E-4
Q4405	E-4
Q4406	E-3
Q4407	E-4
Q4601	D-3
Q4641	D-3
Q4751	E-2
Q4752	E-1
Q4753	D-1
Q4754	D-1
Q4755	E-2
Q4756	E-1
Q4757	E-1
Q4801	E-1
Q4802	E-2
Q4803	E-2
Q4804	E-1
Q4805	E-1
Q4871	E-1
Q4872	E-1
Q4881	E-1
Q4882	E-1
Q4891	E-1
Q4892	E-1

ADDRESS INFORMATION

A-P.W. Board (COMPONENT SIDE)	
IC	
IC4001	B-1
IC4002	A-1
IC4101	B-3
IC4301	B-3
IC4401	B-4
IC4601	A-4
IC4602	A-3
IC4701	A-5
IC4901	A-6
VR	
R4012	B-2
R4027	A-1
R4034	B-2
R4040	B-1
R4442	B-4
R4702	A-5
R4823	B-6
R4829	A-5
R4830	A-5
R4838	A-6
R4843	A-6
VARIABLE CAPACITOR	
C4018	A-2
TP	
TPA1	A-3
TPA2	B-2
TPA3	B-2
TPA4	B-1
TPA5	B-2
TPA6	B-2
TPA7	B-3
TPA9	B-3
TPA10	B-4
TPA11	B-4
TPA12	B-4
TPA13	A-3
TPA14	A-3
TPA15	B-5
TPA16	A-5
TPA17	A-5
TPA18	C-6
TPA19	B-6
TPA20	C-6
TPA21	B-6
TPA22	B-6
TPA23	A-1
TPA24	C-3
TPA25	B-5
TPA26	B-6
TPA51	B-2
TPA52	B-3
TPA53	C-6

ADDRESS INFORMATION

F E D C B A

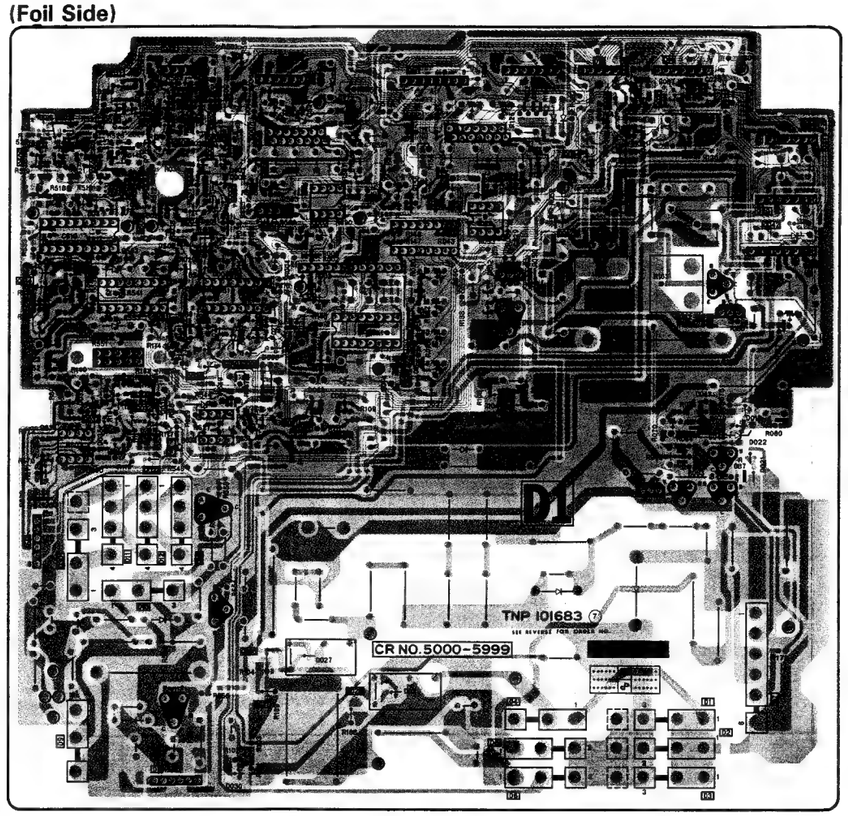
1 2 3 4 5 6 7

D1-P.W. Board (FOIL SIDE)	
TRANSISTOR	
Q5001	C-2
Q5002	C-2
Q5003	C-2
Q5004	C-1
Q5005	C-2
Q5006	C-1
Q5007	C-2
Q5008	C-1
Q5009	C-1
Q5010	B-1
Q5011	C-1
Q5012	C-3
Q5013	C-3
Q5014	C-3
Q5021	B-4
Q5026	A-2
Q5027	A-2
Q5028	A-2
Q5031	B-2
Q5032	B-1
Q5033	B-1
Q5034	C-3
Q5035	C-3
Q5036	B-1
Q5037	B-1
Q5038	C-3
Q5039	C-3
Q5042	C-4
Q5501	C-1
Q5502	C-1
Q5503	C-1
Q5504	C-1
Q5505	C-1
Q5506	C-1
Q5507	C-1
Q5508	C-1
Q5510	C-1
Q5511	C-1
Q5512	C-1
Q5514	C-1
Q5522	C-2
Q5524	C-1

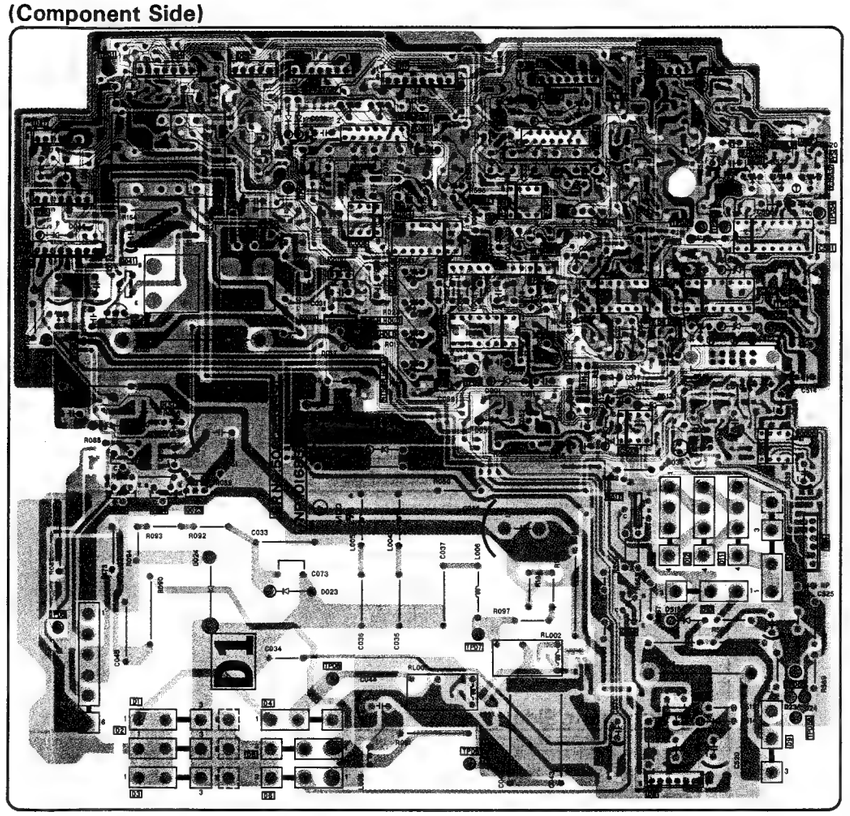
ADDRESS INFORMATION

D1-P.W. board (TNP101683)

(Foil Side)



(Component Side)



C
B
A
1 2 3 4 5 6 7

D1-P.W. Board (COMPONENT SIDE)	
TRANSISTOR	
Q5018	C-5
Q5019	C-5
Q5022	B-5
Q5023	B-5
Q5024	B-5
Q5025	B-5
Q5040	C-5
Q5041	C-5
Q5515	A-7
Q5516	A-7
Q5517	B-6
Q5523	C-6
IC	
IC5001	C-5
IC5002	C-6
IC5003	C-6
IC5004	C-6
IC5006	C-7
IC5007	C-6
IC5008	C-5
IC5501	C-7
IC5502	C-7
IC5503	B-6
IC5504	C-6
IC5506	A-7
VR	
R5017	C-6
R5019	B-6
R5021	C-6
R5023	C-6
R5025	C-6
R5078	B-5
R5121	C-6
R5123	C-5
R5158	C-4
R5520	A-7
R5522	A-7
R5524	A-7
R5550	C-7
R5577	C-6
R5595	C-6
TP	
TPD1	C-4
TPD2	C-6
TPD3	B-6
TPD4	B-6
TPD5	A-4
TPD6	A-6
TPD7	A-6
TPD8	A-5
TPD9	C-5
TPD10	B-4
TPD51	C-7
TPD53	C-7
TPD54	C-7
TPD55	C-7
TPD56	A-7
TPD57	C-6
TPD58	A-7
TPD59	C-7
TPD60	C-6
TPD62	C-7

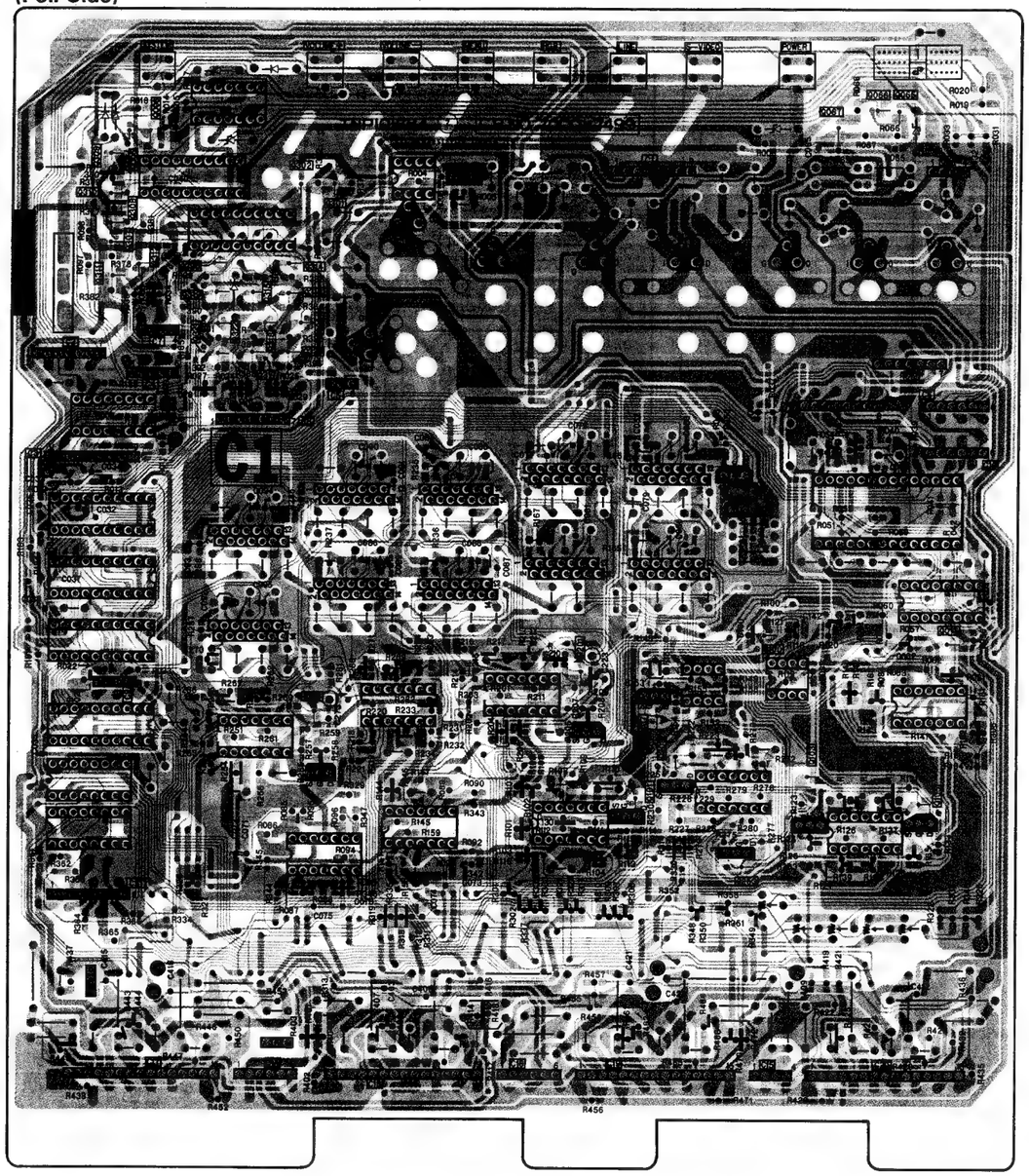
ADDRESS INFORMATION

C1-P.W. board (TNP101684)

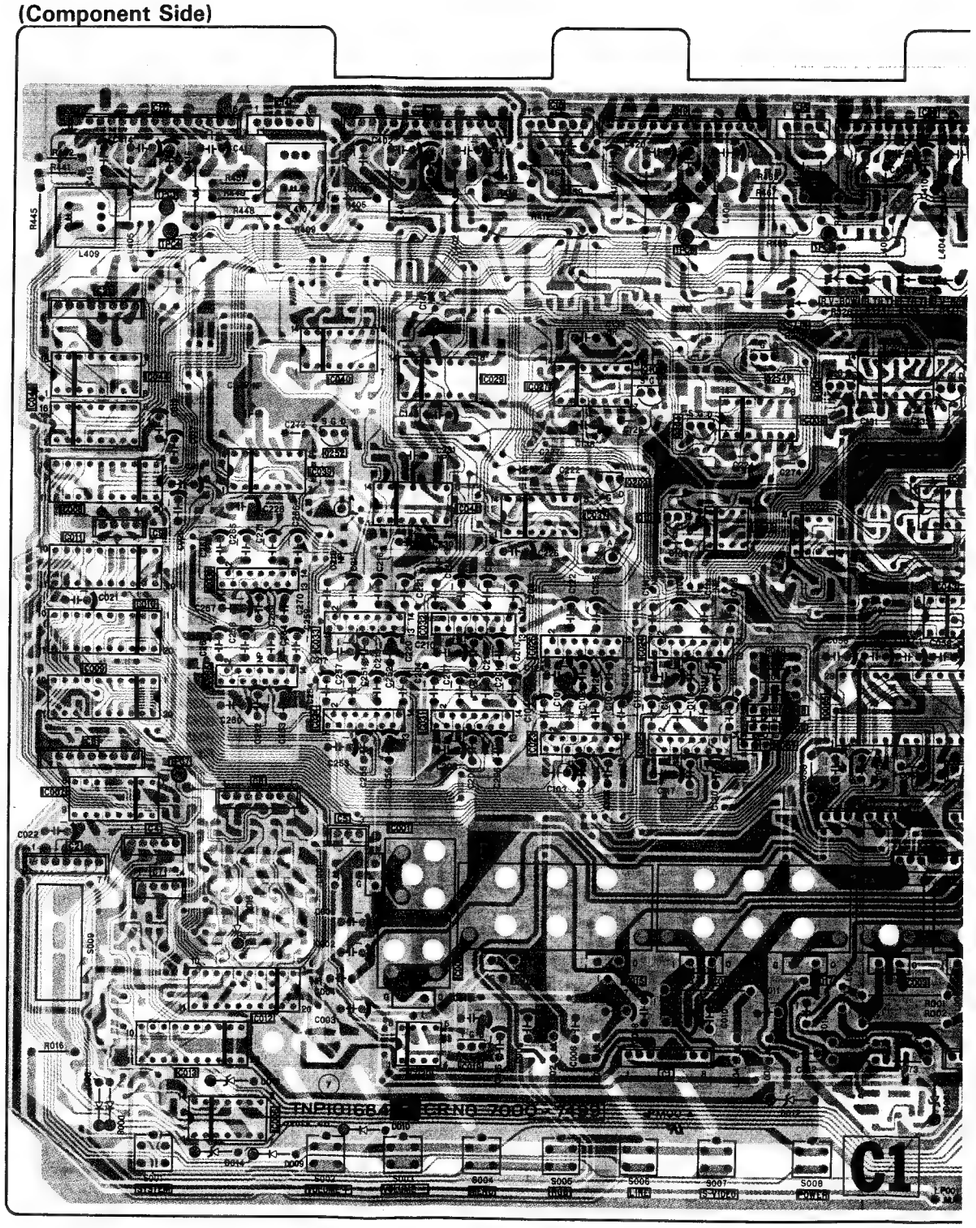
C1-P.W. Board (FOIL SIDE)	
TRANSISTOR	
Q7005	D-1
Q7006	D-1
Q7011	B-4
Q7065	D-3
Q7066	D-3
Q7067	D-3
Q7100	B-3
Q7101	B-3
Q7103	B-3
Q7105	B-4
Q7107	B-3
Q7201	B-2
Q7203	B-3
Q7251	B-2
Q7253	B-3
Q7301	D-2
Q7302	D-2
Q7307	D-1
Q7308	D-1
Q7309	D-1
Q7310	D-1
Q7311	C-1
Q7312	C-1
Q7313	C-2
Q7314	C-2
Q7315	C-1
Q7317	C-1
Q7318	C-1
Q7319	C-1
Q7320	C-1
Q7321	C-1
Q7322	C-1
Q7323	C-2
Q7324	C-2

ADDRESS INFORMATION

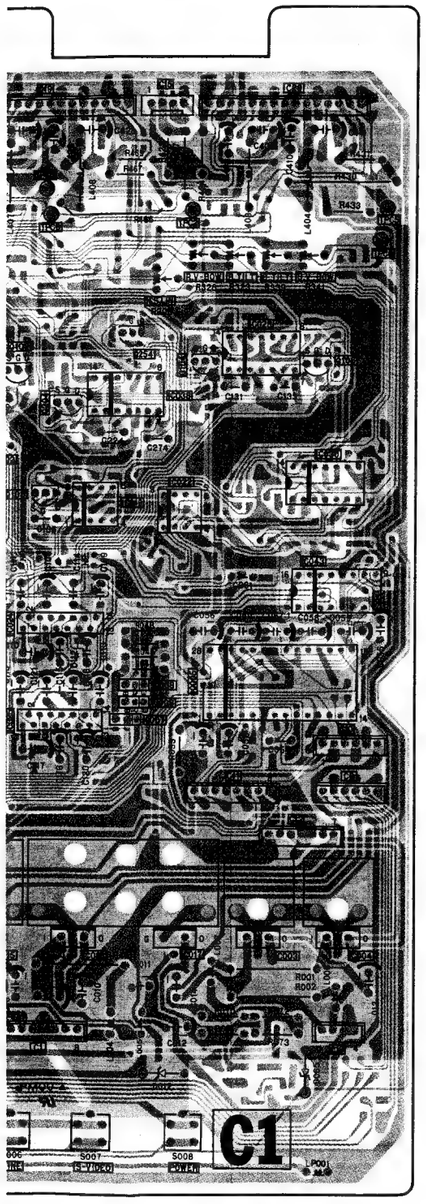
(Foil Side)



(Component Side)



D
C
B
A
1
2
3
4
5
6



C1-P.W. Board (COMPONENT SIDE)	
TRANSISTOR	
Q7007	B-6
Q7008	B-6
Q7009	B-6
Q7102	C-6
Q7104	C-6
Q7106	C-7
Q7108	C-6
Q7202	C-6
Q7204	C-6
Q7252	C-5
Q7254	C-6
IC	
IC7001	B-5
IC7002	A-5
IC7003	A-7
IC7004	A-7
IC7005	B-7
IC7006	A-5
IC7007	B-4
IC7008	C-4
IC7009	B-4
IC7010	C-4
IC7011	C-4
IC7012	A-5
IC7013	A-5
IC7014	A-6
IC7015	A-6
IC7016	A-6
IC7017	A-6
IC7019	A-5
IC7020	A-5
IC7022	C-6
IC7023	B-6
IC7024	B-6
IC7025	B-6
IC7026	B-6
IC7027	C-6
IC7028	C-7
IC7029	C-5
IC7030	C-7
IC7031	B-5
IC7032	B-5
IC7033	B-5
IC7034	B-5
IC7035	B-5
IC7036	C-5
IC7037	C-6
IC7038	C-6
IC7039	C-5
IC7040	C-5
IC7041	C-5
IC7042	C-6
IC7043	C-7
IC7044	C-4
IC7045	C-4
VR	
R7306	C-6
R7323	C-7
R7326	C-6
R7339	C-7
R7341	C-7
TP	
TPC1	D-4
TPC2	D-6
TPC3	D-6
TPC4	D-4
TPC5	D-7
TPC6	D-6
TPC7	B-5
TPC8	D-7

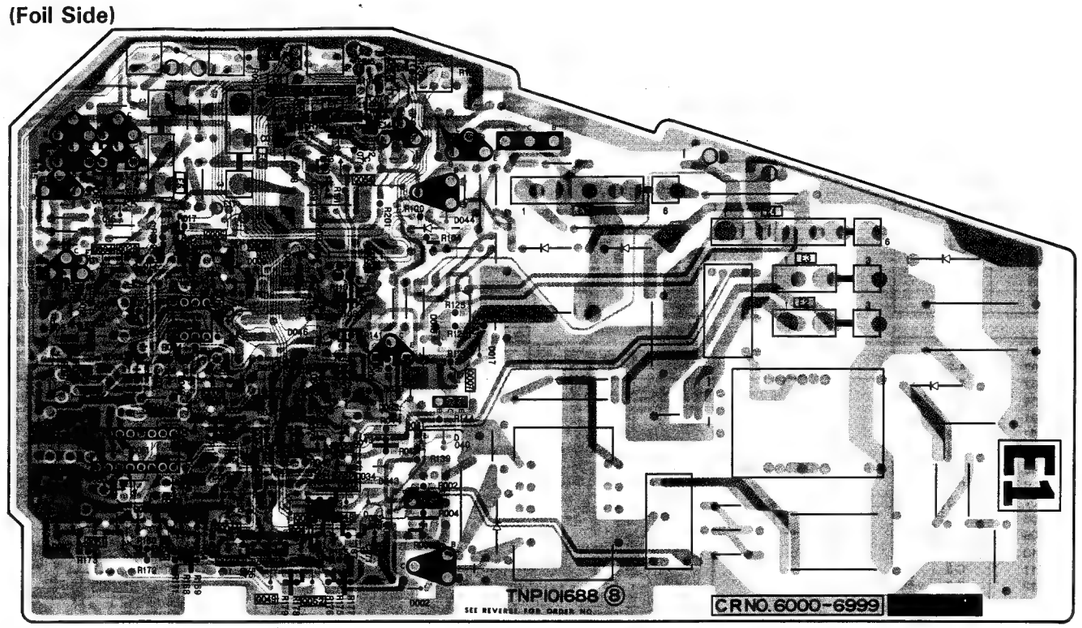
ADDRESS INFORMATION

E1-P.W. Board (FOIL SIDE)	
TRANSISTOR	
Q6003	D-1
Q6004	E-1
Q6005	E-2
Q6006	E-1
Q6007	D-2
Q6010	D-2
Q6011	D-1
Q6012	E-1
Q6021	D-2
Q6022	D-2
Q6023	D-2
Q6029	E-1
Q6030	E-2
Q6031	E-2
Q6039	D-2
Q6042	D-2
Q6044	D-2
Q6045	D-2
Q6046	D-2
Q6047	D-2
Q6048	D-2
Q6049	C-2
Q6050	D-1
Q6051	D-1
Q6052	C-2
Q6053	D-2
Q6054	E-2
Q6055	E-2
Q6056	E-2

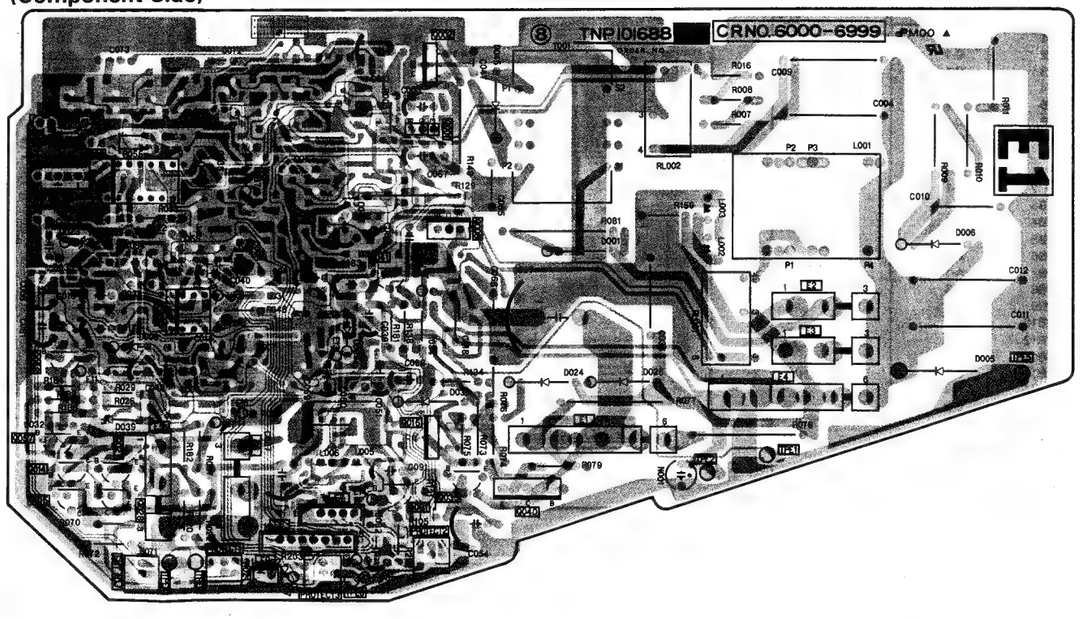
ADDRESS INFORMATION

E1-P.W. board (TNP101688)

(Foil Side)



(Component Side)



E
D
C
B
A
1
2
3
4

E1-P.W. Board (COMPONENT SIDE)	
TRANSISTOR	
Q6001	C-2
Q6002	C-2
Q6008	B-2
Q6014	A-1
Q6015	A-1
Q6016	A-2
Q6027	A-1
Q6028	A-1
Q6035	A-2
Q6040	A-3
Q6041	B-2
Q6057	A-1
Q6058	B-1
Q6061	A-2
IC	
IC6001	B-1
IC6002	B-1
VR	
R6021	A-2
R6071	A-1
R6105	A-2
R6203	A-2
TP	
TPE1	A-4
TPE2	A-3
TPE3	A-1
TPE4	A-1
TPE5	B-4
TPE6	A-2

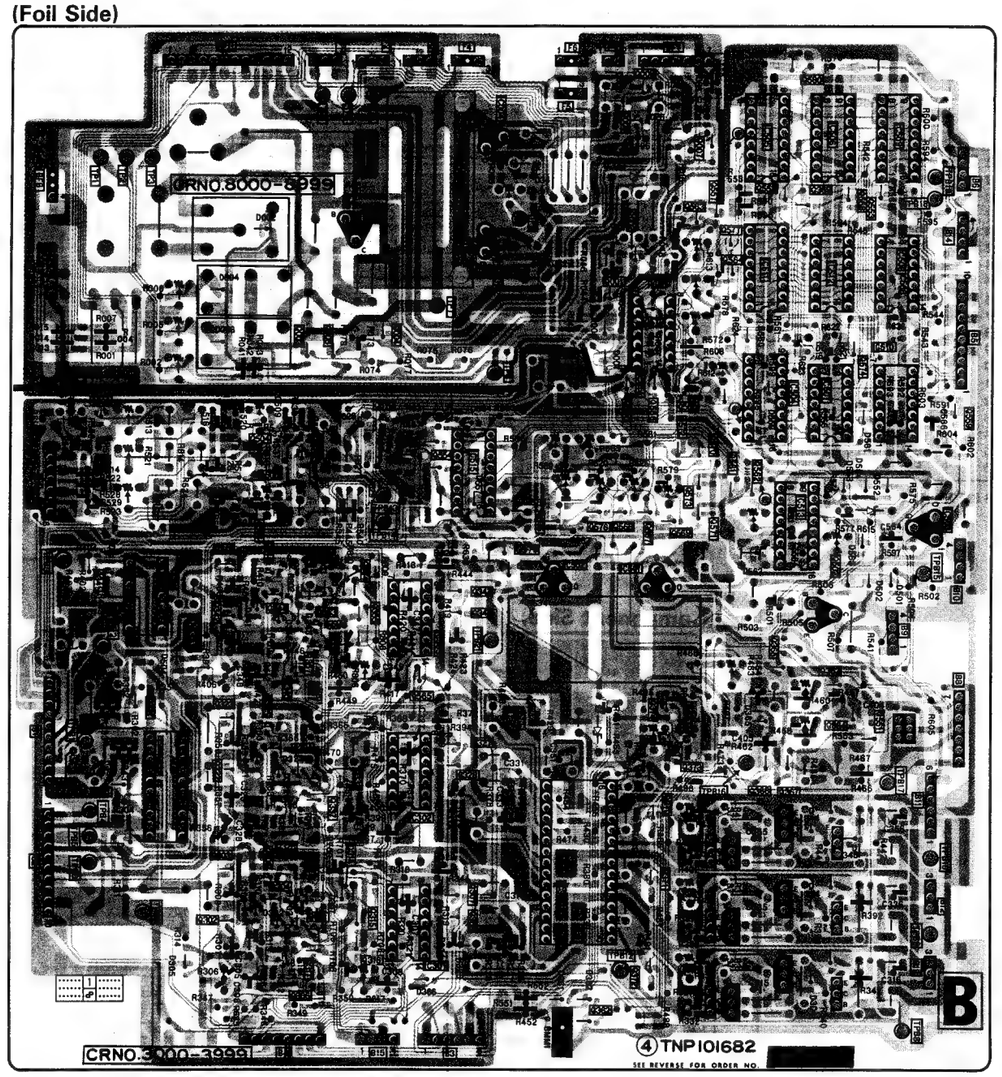
ADDRESS INFORMATION

B-P.W. Board (FOIL SIDE)	
TRANSISTOR	
Q3301	B-1
Q3302	A-1
Q3303	A-1
Q3304	A-2
Q3305	A-1
Q3306	A-2
Q3307	A-2
Q3308	A-2
Q3313	A-2
Q3314	A-2
Q3315	A-2
Q3316	A-2
Q3317	A-2
Q3321	B-1
Q3322	B-1
Q3323	B-1
Q3324	B-2
Q3325	B-1
Q3326	A-2
Q3327	B-2
Q3328	B-2
Q3333	B-2
Q3337	B-2
Q3341	B-1
Q3342	B-1
Q3343	B-1
Q3344	B-2
Q3345	B-1
Q3346	B-2
Q3347	B-2
Q3348	B-2
Q3353	B-2
Q3354	B-2
Q3355	B-2
Q3356	B-2
Q3357	B-2
Q3362	A-2
Q3363	B-3
Q3364	B-3
Q3365	B-3
Q3366	B-3
Q3367	B-3
Q3369	C-3
Q3370	B-3
Q3371	A-3
Q3372	A-3
Q3373	B-3
Q3374	B-3
Q3502	B-3
Q3503	C-1
Q3504	C-1
Q3505	C-1
Q3506	B-1
Q3507	C-2
Q3551	B-3
Q3552	C-3
Q3553	C-3
Q3554	C-2
Q3555	C-2
Q3556	C-3
Q3557	C-3
Q3558	C-3
Q3559	C-4
Q3560	C-3
Q3561	C-3
Q3562	C-3
Q3563	C-3
Q3564	C-3
Q3565	B-2
Q3566	C-3
Q3567	B-3
Q3568	B-3
Q3569	B-3
Q3570	C-3
Q3571	B-3
Q3572	C-3
Q3573	B-3
Q3575	B-2
Q3576	B-2
Q3577	C-3
Q3578	C-3
Q3579	C-2
Q8001	C-3
Q8002	C-3
Q8003	C-2
Q8004	C-2
Q8005	C-2
Q8007	D-3
IC	
IC3301	A-2
IC3302	A-2
IC3303	B-2
IC3304	A-2
IC3501	B-3
IC3502	B-2
IC3504	C-3
IC3505	D-3
IC3506	D-3
IC3507	C-3
IC3508	C-3
IC3509	D-3
IC3510	C-3
IC3511	C-3
IC3512	C-3
IC3513	B-3
IC3514	C-3
IC3515	C-2
IC8003	C-2
IC8004	D-2
TP	
TP1	C-1
TP2	C-1
TP3	C-1
TP4	D-2
TP5	D-2
TP6	D-2
TP7	C-2
TP8	C-2
TPB1	B-1
TPB2	B-1
TPB3	B-1
TPB4	A-1
TPB5	A-1
TPB6	A-1
TPB7	A-1
TPB8	A-3
TPB9	A-3
TPB10	A-4
TPB12	A-3
TPB13	B-2
TPB14	B-2
TPB15	B-3
TPB16	B-3
TPB17	B-3
TPB18	C-3
TPB19	C-4
TPB20	D-3
TPB21	B-2

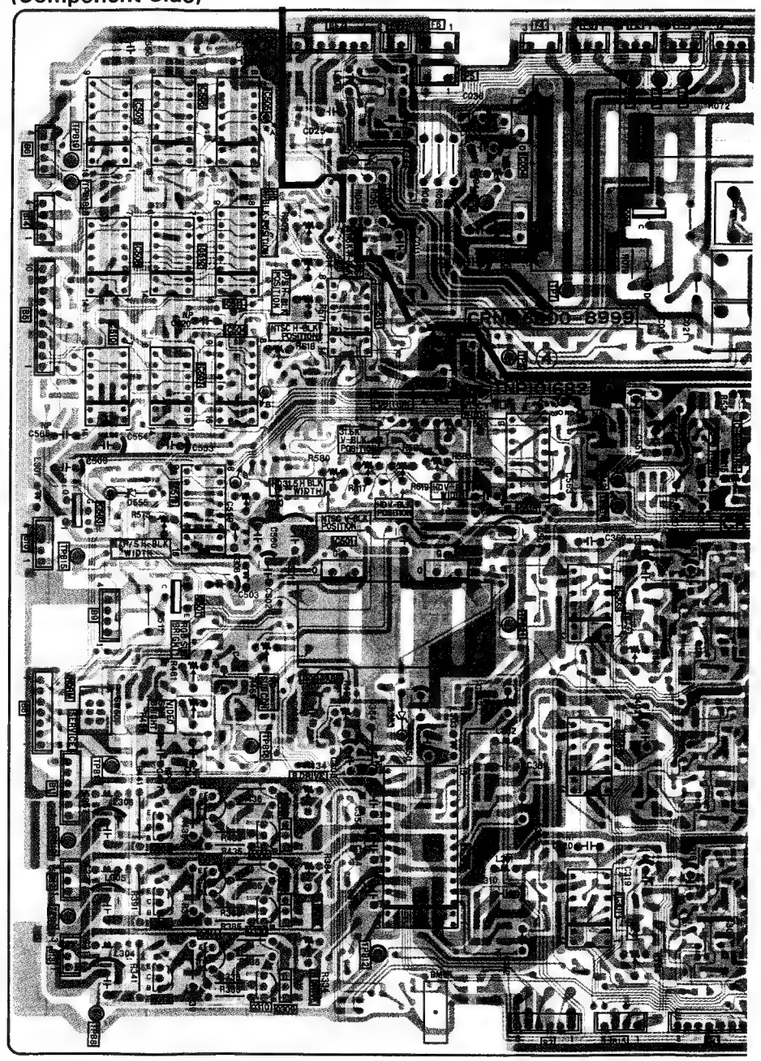
ADDRESS INFORMATION

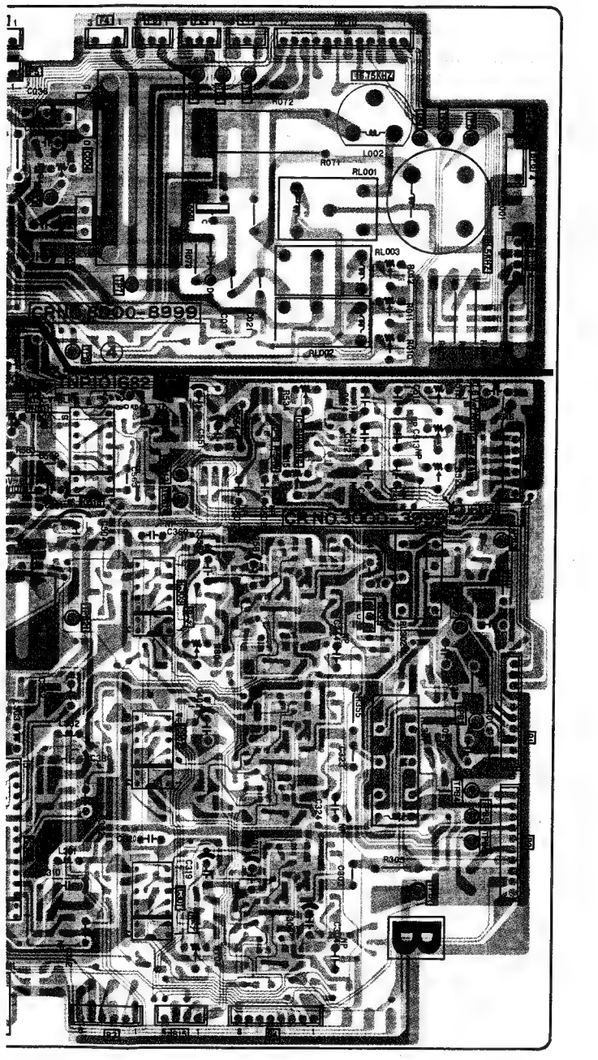
B-P.W. board (TNP101682BZ)

(Foil Side)



(Component Side)

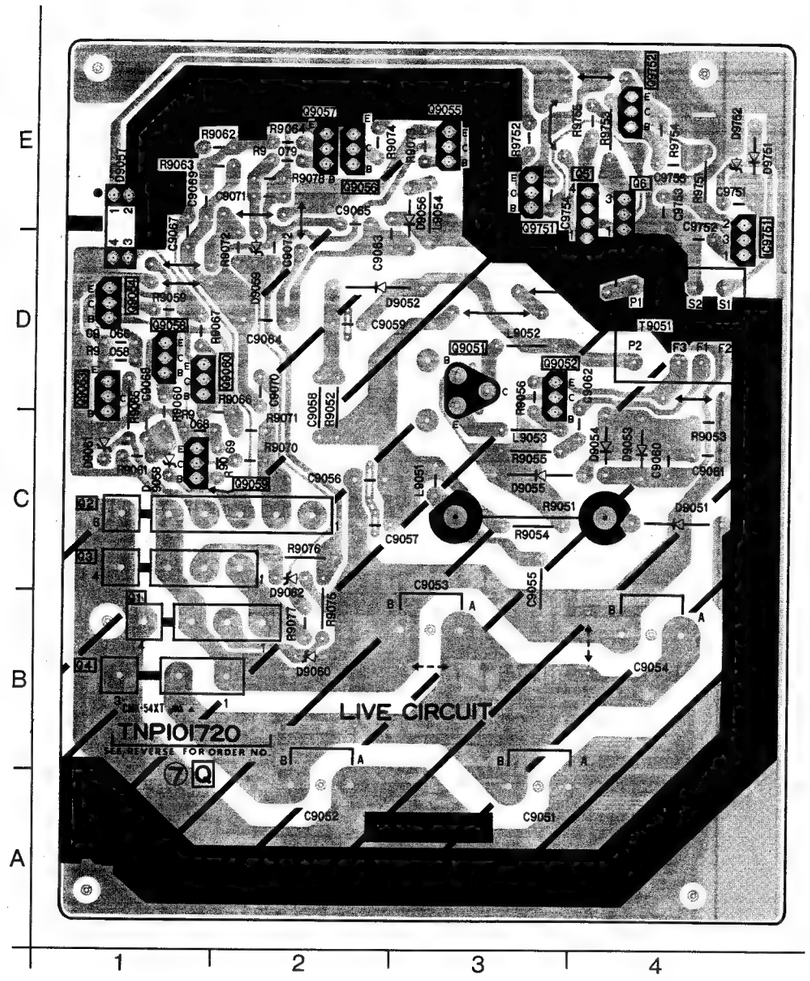




B-P.W. Board (COMPONENT SIDE)	
TRANSISTOR	
Q3309	A-5
Q3310	A-5
Q3311	A-5
Q3312	A-4
Q3329	A-5
Q3330	A-5
Q3331	A-5
Q3332	A-4
Q3349	A-5
Q3350	A-5
Q3351	B-5
Q3352	A-4
Q3361	B-6
Q3501	B-5
Q8006	C-6
IC	
IC3301	A-6
IC3302	B-6
IC3303	B-6
IC3304	A-5
IC3501	B-5
IC3502	B-5
IC3503	B-4
IC3504	C-5
IC3505	D-5
IC3506	D-5
IC3507	C-5
IC3508	C-4
IC3509	D-4
IC3510	C-4
IC3511	C-5
IC3512	C-5
IC3515	B-6
IC3614	C-5
IC8003	C-6
IC8004	C-6
VR	
R3334	A-5
R3384	A-5
R3434	B-5
R3459	B-5
R3461	B-5
R3463	B-5
R3469	B-5
R3512	C-7
R3519	C-7
R3526	C-7
R3534	C-6
R3571	C-5
R3573	B-4
R3580	C-5
R3582	C-5
R3583	C-5
R3606	C-5
R3609	C-5
R3610	B-5
R3614	C-5
R3617	B-5
R3618	C-5
R3619	B-5
R3704	A-6
R3804	B-6
R8010	C-7
R8011	C-7
R8012	C-7
TP	
TP1	D-7
TP2	D-7
TP3	D-7
TP4	D-6
TP5	D-6
TP6	D-6
TP7	C-6
TP8	C-6
TPB1	B-7
TPB2	B-7
TPB3	B-7
TPB4	B-7
TPB5	A-7
TPB6	A-7
TPB7	A-7
TPB8	A-4
TPB9	A-4
TPB10	A-4
TPB12	A-5
TPB13	B-6
TPB14	B-6
TPB15	B-4
TPB16	B-5
TPB17	B-4
TPB18	C-4
TPB19	C-4
TPB20	D-5
TPB21	B-6

ADDRESS INFORMATION

Q-P.W. board (TNP101720BZ)

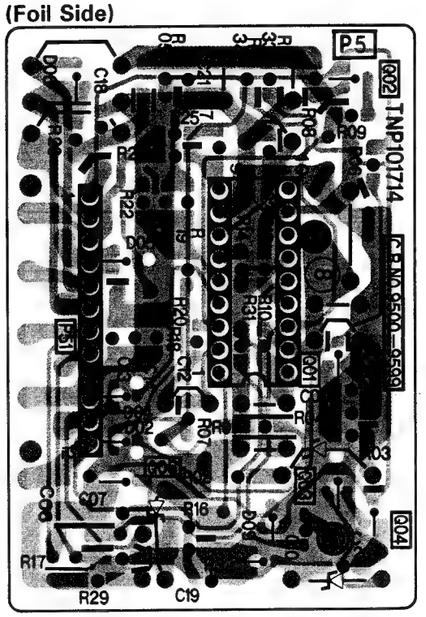


Q-P.W. Board	
TRANSISTOR	
Q1	C-1
Q2	C-1
Q3	C-1
Q4	B-1
Q5	E-4
Q6	E-4
Q9051	D-3
Q9052	D-4
Q9053	D-1
Q9054	D-1
Q9055	E-3
Q9056	E-2
Q9057	E-2
Q9058	D-1
Q9059	C-2
Q9060	D-2
Q9751	E-4
Q9752	E-4
IC	
IC9751	E-5

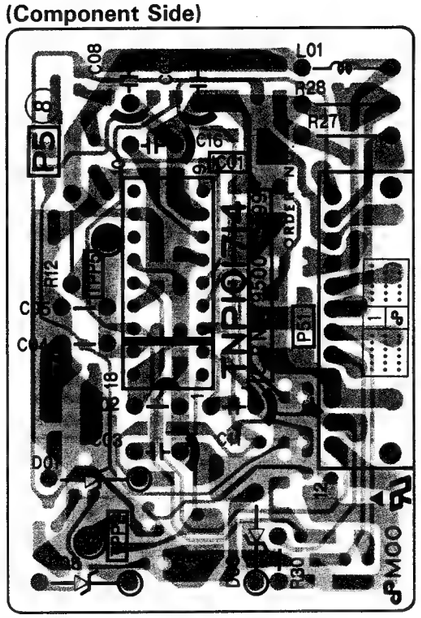
ADDRESS INFORMATION

P5-P.W. board (TNP101714)

(Foil Side)



(Component Side)



P5-P.W. Board (FOIL SIDE)	
TRANSISTOR	
Q9501	A-2
Q9502	B-2
Q9503	A-2
Q9504	A-2
Q9505	A-1
CONNECTOR	
P9551	B-1

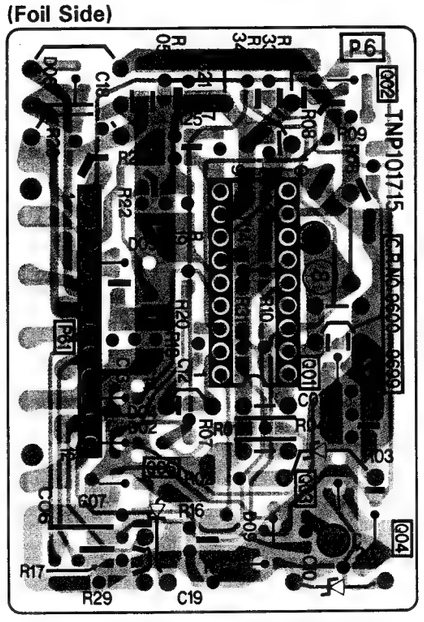
ADDRESS INFORMATION

P5-P.W. Board (COMPONENT SIDE)	
IC	
IC9501	B-3
TP	
TPP2	A-3
TPP5	B-3
CONNECTOR	
P9551	B-3

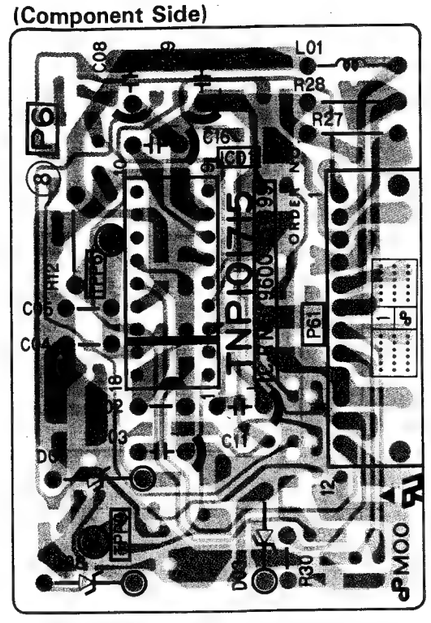
ADDRESS INFORMATION

P6-P.W. board (TNP101715)

(Foil Side)



(Component Side)



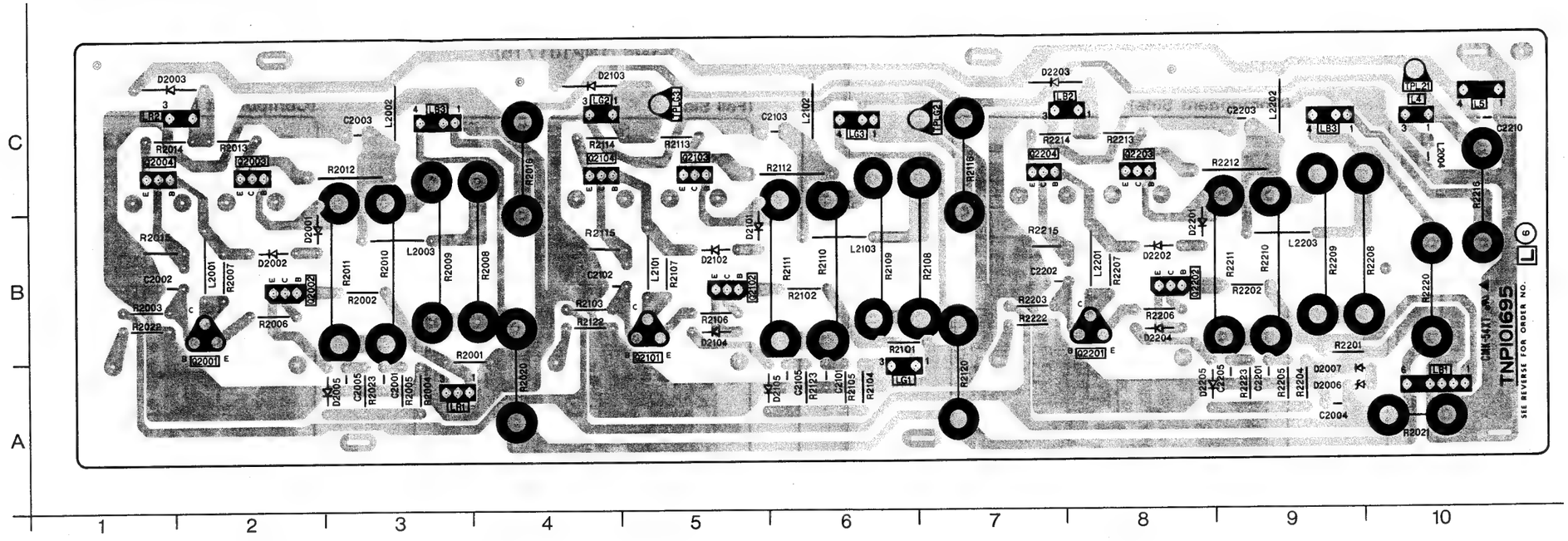
P6-P.W. Board (FOIL SIDE)	
TRANSISTOR	
Q9601	A-2
Q9602	B-2
Q9603	A-2
Q9604	A-2
Q9605	A-1
CONNECTOR	
P9661	B-1

ADDRESS INFORMATION

P6-P.W. Board (COMPONENT SIDE)	
IC	
IC9601	B-3
TP	
TPP3	A-3
TPP6	B-3
CONNECTOR	
P9661	B-3

ADDRESS INFORMATION

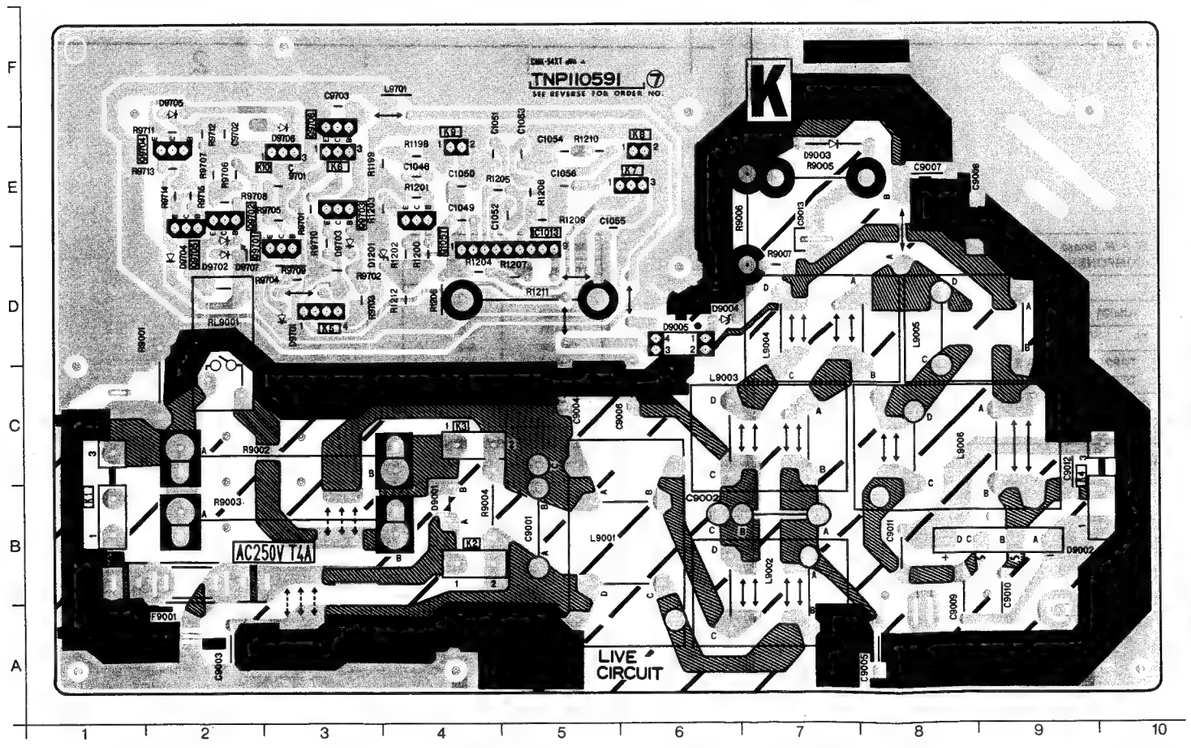
L-P.W. board (TNP101695)



L-P.W. Board	
TRANSISTOR	
Q2001	B-2
Q2002	B-2
Q2003	C-2
Q2004	C-1
Q2101	B-5
Q2102	B-6
Q2103	C-5
Q2104	C-5
Q2201	B-9
Q2202	B-9
Q2203	C-9
Q2204	C-8
TP	
TPL21	C-11
TPLG2	C-7
TPLG3	C-5

ADDRESS INFORMATION

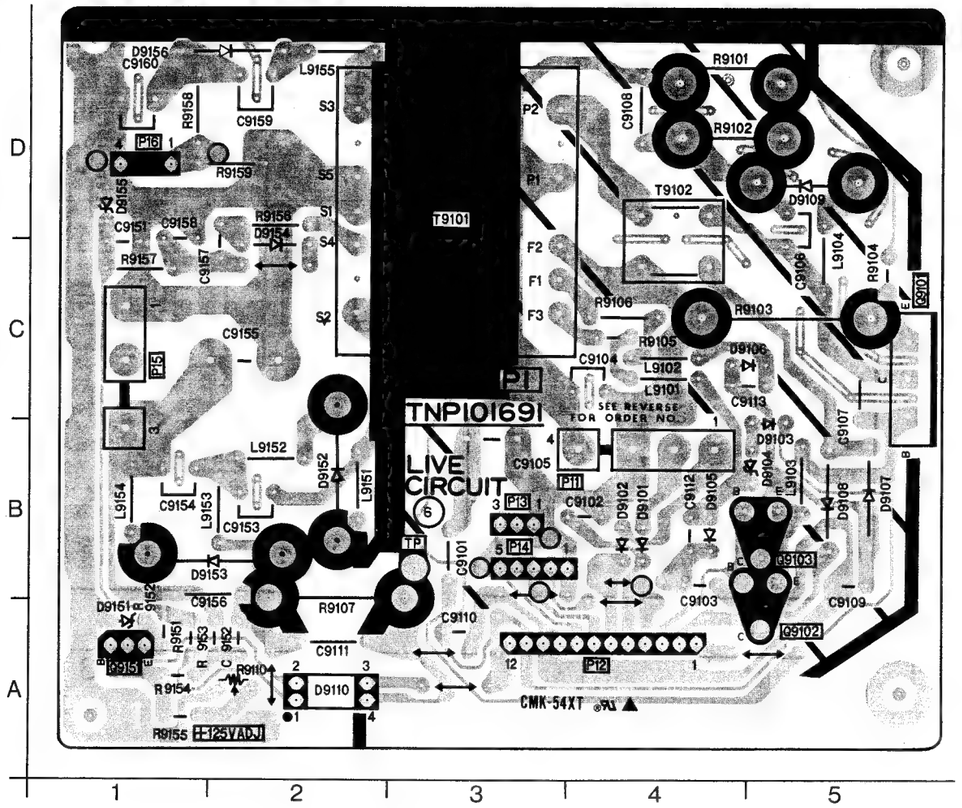
K-P.W. board (TNP110591)



K-P.W. Board	
TRANSISTOR	
Q1057	D-4
Q9701	D-2
Q9702	D-2
Q9703	D-3
Q9704	E-1
Q9705	D-2
Q9706	E-3
IC	
IC1013	D-5

ADDRESS INFORMATION

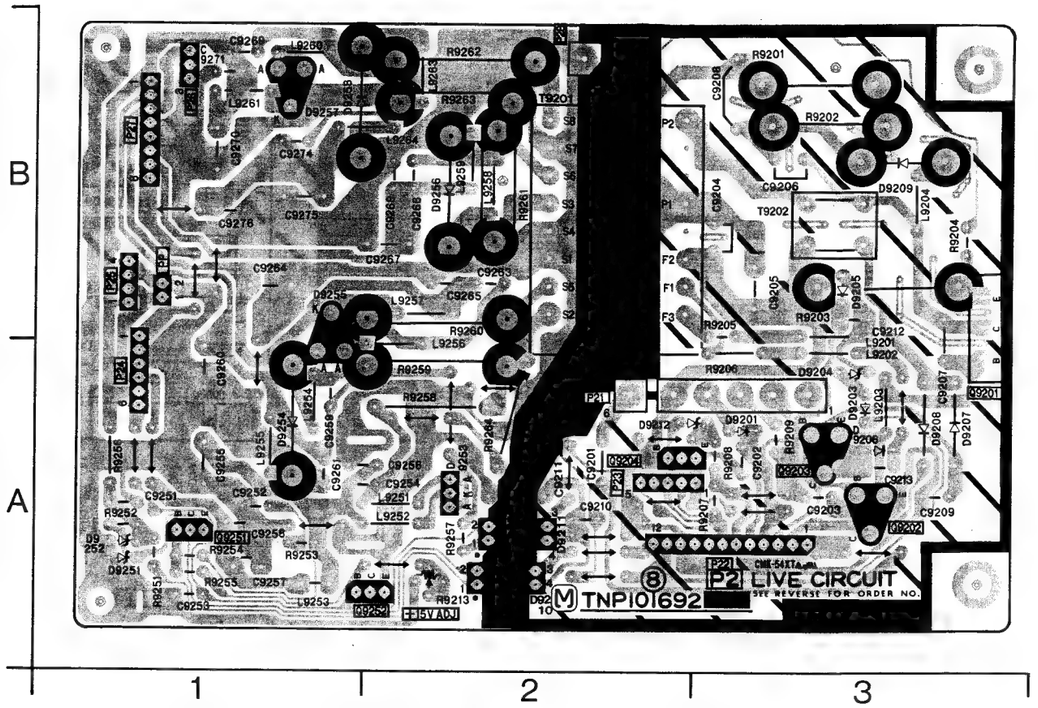
P1-P.W. board (TNP101691)



P1-P.W. Board	
TRANSISTOR	
Q9101	C-5
Q9102	A-5
Q9103	B-5
Q9151	A-1
VR	
R9110	A-2
TP	
TP	B-3
CONNECTOR	
P11	B-3
P12	A-4
P13	B-3
P14	B-3
P15	C-1
P16	D-1

ADDRESS INFORMATION

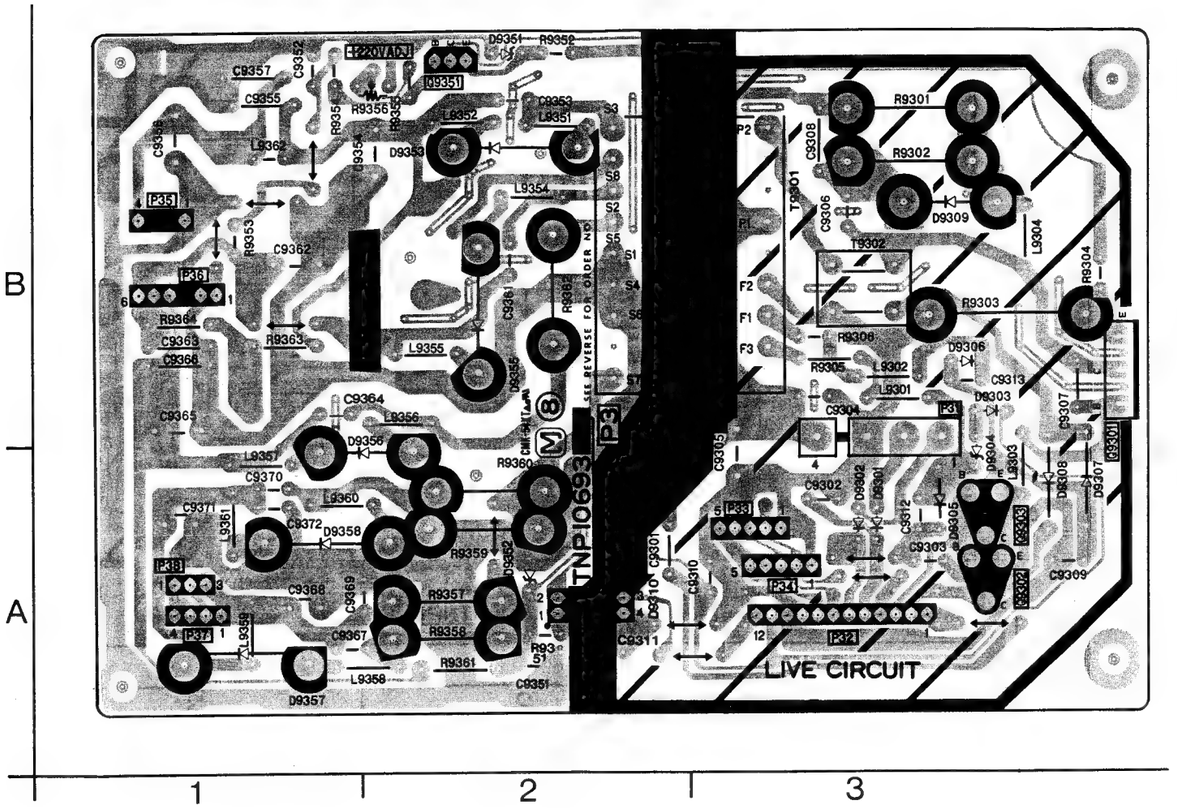
P2-P.W. board (TNP101692)



P2-P.W. Board	
TRANSISTOR	
Q9201	A-3
Q9202	A-3
Q9203	A-3
Q9204	A-2
Q9251	A-1
Q9252	A-2
VR	
R9213	A-2
CONNECTOR	
P21	A-2
P22	A-3
P23	A-2
P24	A-1
P24	A-1
P25	B-1
P27	B-1
P28	B-1
PP	B-1

ADDRESS INFORMATION

P3-P.W. board (TNP101693)

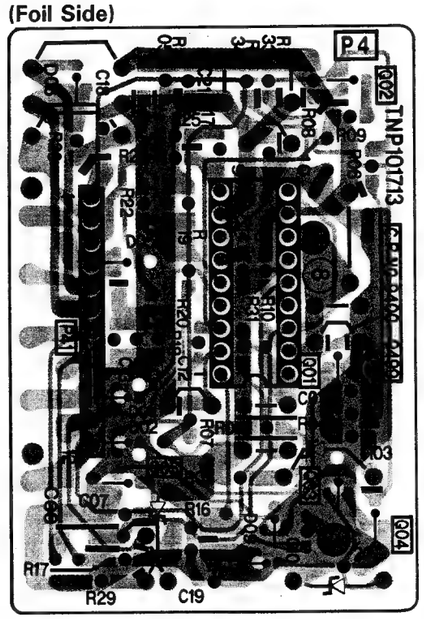


P3-P.W. Board	
TRANSISTOR	
Q9301	A-3
Q9302	A-3
Q9303	A-3
Q9351	B-2
VR	
R9356	B-2
CONNECTOR	
P31	B-3
P32	A-3
P33	A-3
P34	A-3
P35	B-1
P36	B-1
P37	A-1
P38	A-1

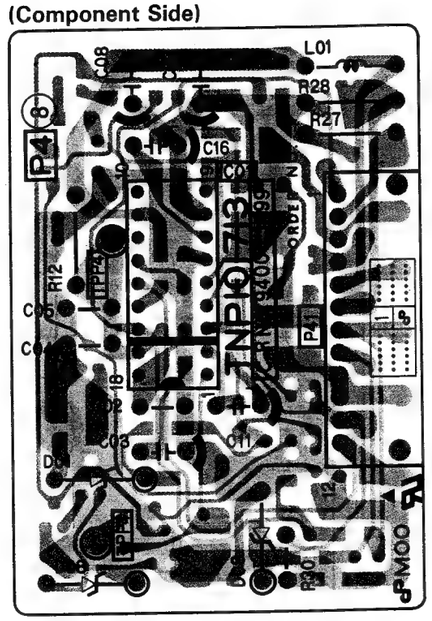
ADDRESS INFORMATION

P4-P.W. board (TNP101713)

(Foil Side)



(Component Side)



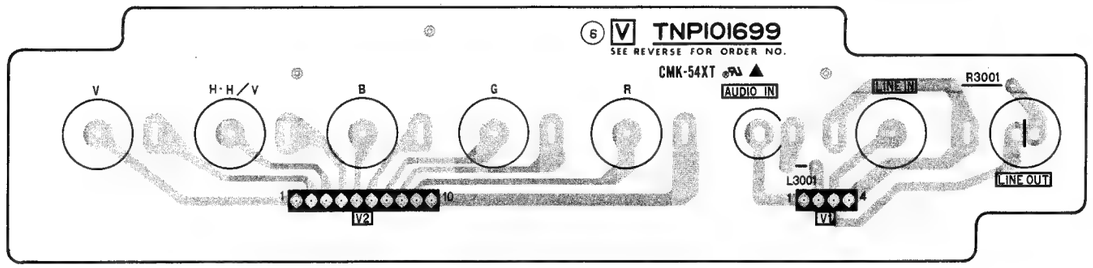
P4-P.W. Board (FOIL SIDE)	
TRANSISTOR	
Q9401	A-2
Q9402	B-2
Q9403	A-2
Q9404	A-2
Q9405	A-1
CONNECTOR	
P9441	B-1

ADDRESS INFORMATION

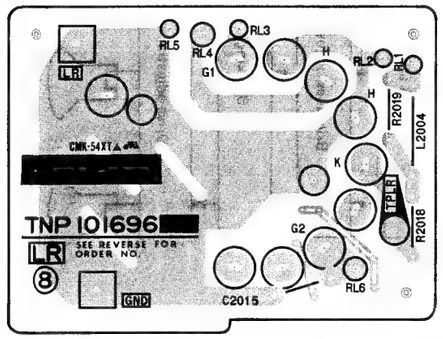
P4-P.W. Board (COMPONENT SIDE)	
IC	
IC9401	B-3
TP	
TPP1	A-3
TPP4	B-3
CONNECTOR	
P9441	B-3

ADDRESS INFORMATION

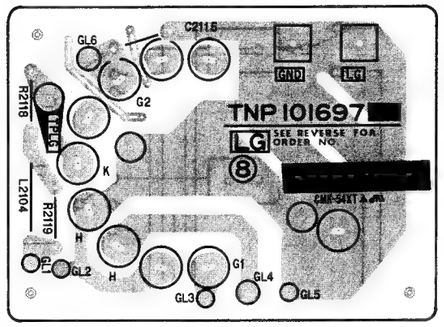
V-P.W. board (TNP101699)



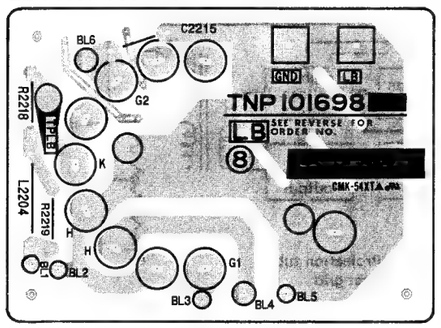
LR-P.W. board (TNP101696AA)



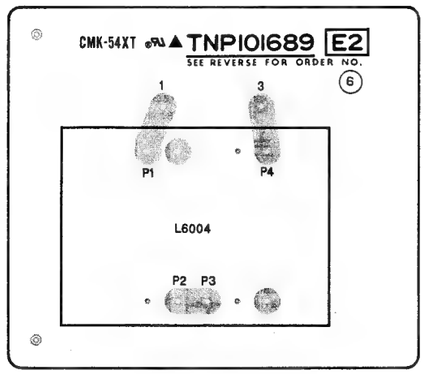
LG-P.W. board (TNP101697AA)



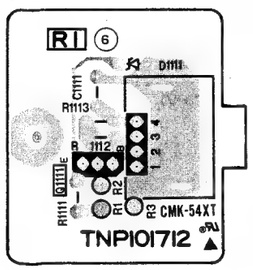
LB-P.W. board (TNP101698AA)



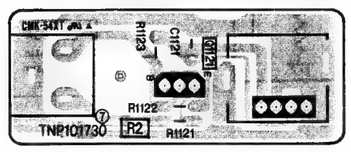
E2-P.W. board (TNP101689ZA)



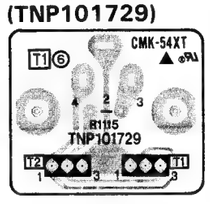
R1-P.W. board (TNP101712ZA)



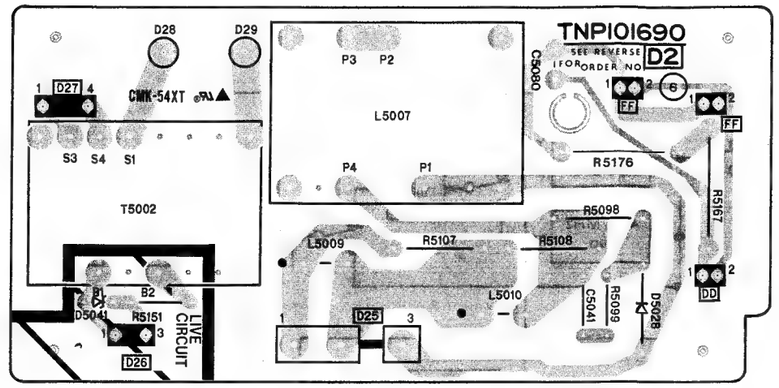
R2-P.W. board (TNP101730)



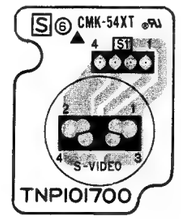
T1-P.W. board (TNP101729)



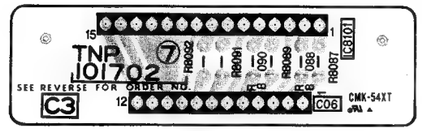
D2-P.W. board (TNP101690ZA)



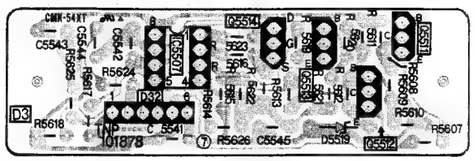
S-P.W. board (TNP101700)



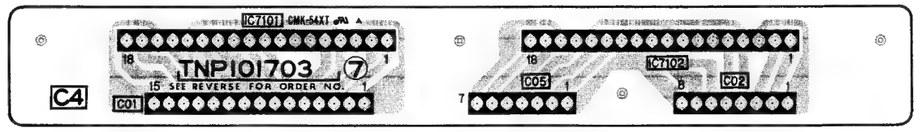
C3-P.W. board (TNP101702)



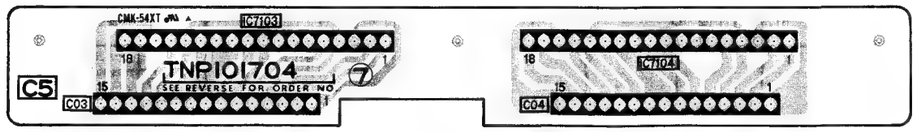
D3-P.W. board (TNP101878)



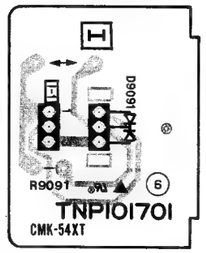
C4-P.W. board (TNP101703)



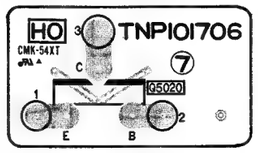
C5-P.W. board (TNP101704)



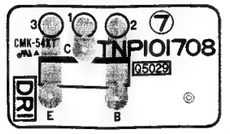
I-P.W. board (TNP101701)



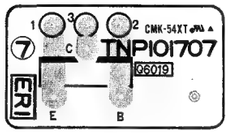
H0-P.W. board (TNP101706ZA)



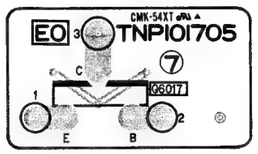
DR1-P.W. board (TNP101708ZA)



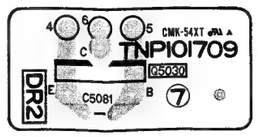
ER1-P.W. board (TNP101707ZA)



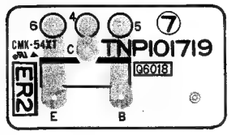
E0-P.W. board (TNP101705ZA)



DR2-P.W. board (TNP101709ZA)



ER2-P.W. board (TNP101719ZA)



Block Diagram

1. Signal Processing Block Diagram

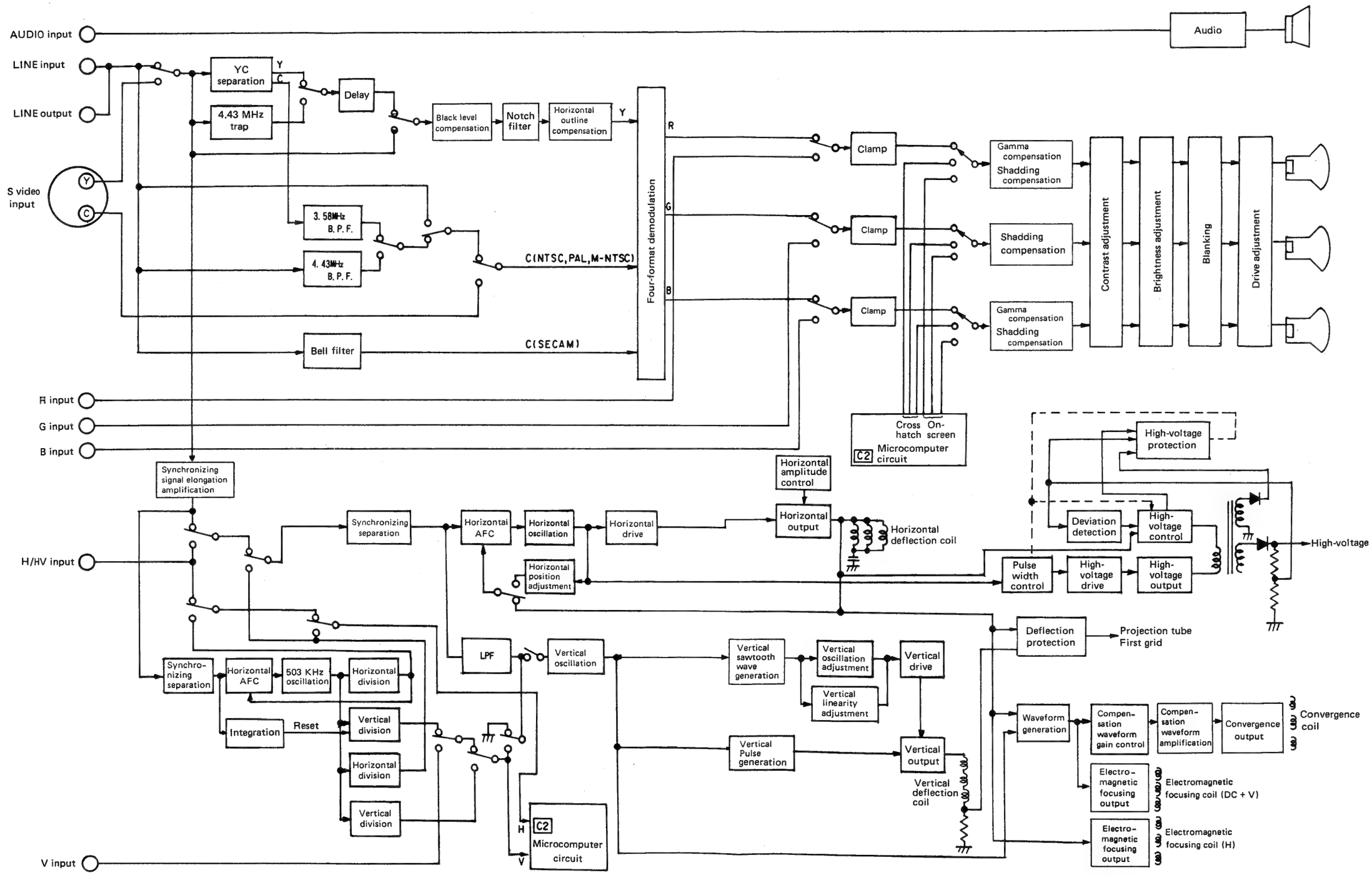


Fig. 1 Signal processing block diagram

2. Control Signal Block Diagram

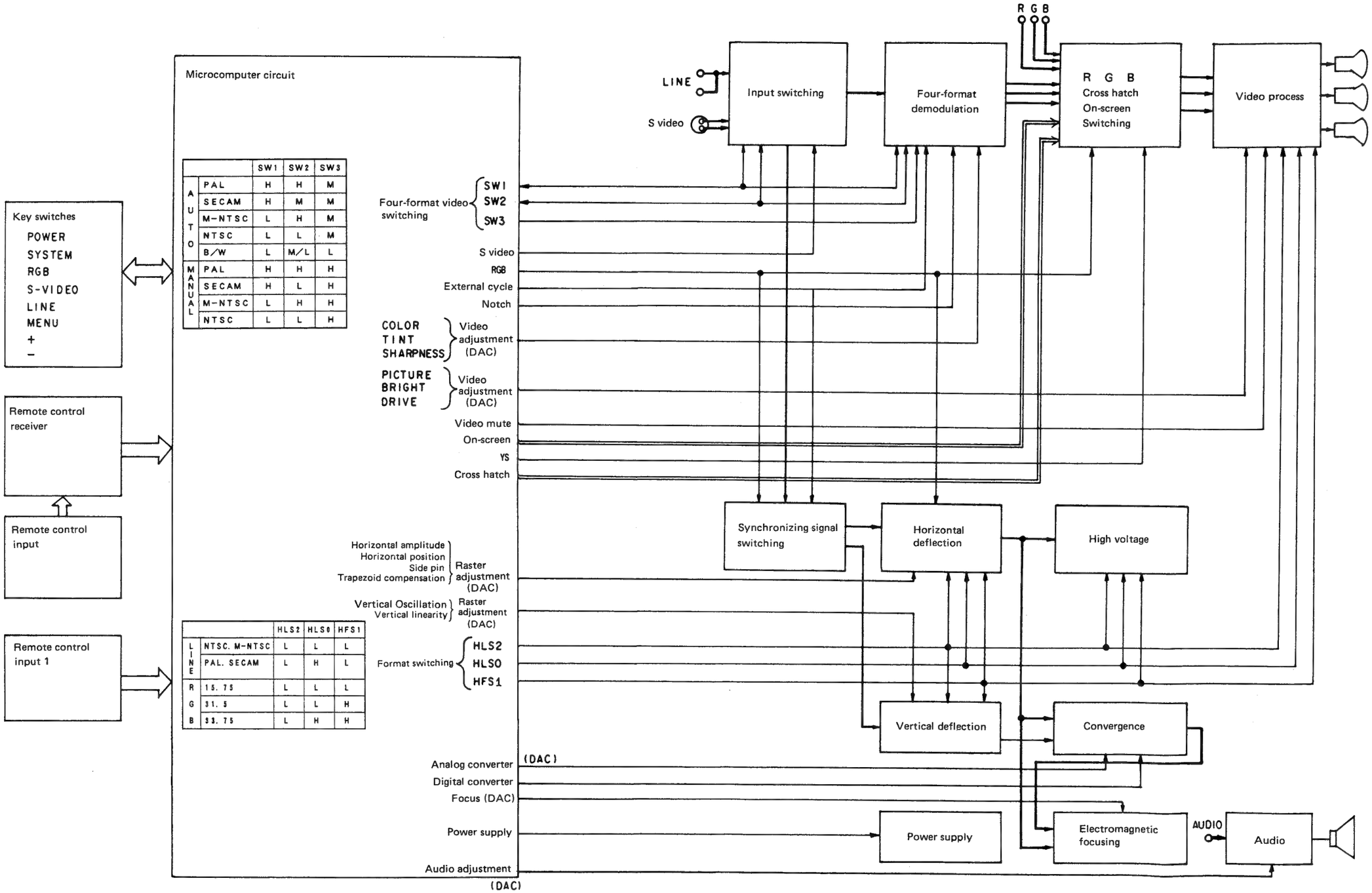


Fig. 2 Control signal block diagram

3. Power Supply Block Diagram

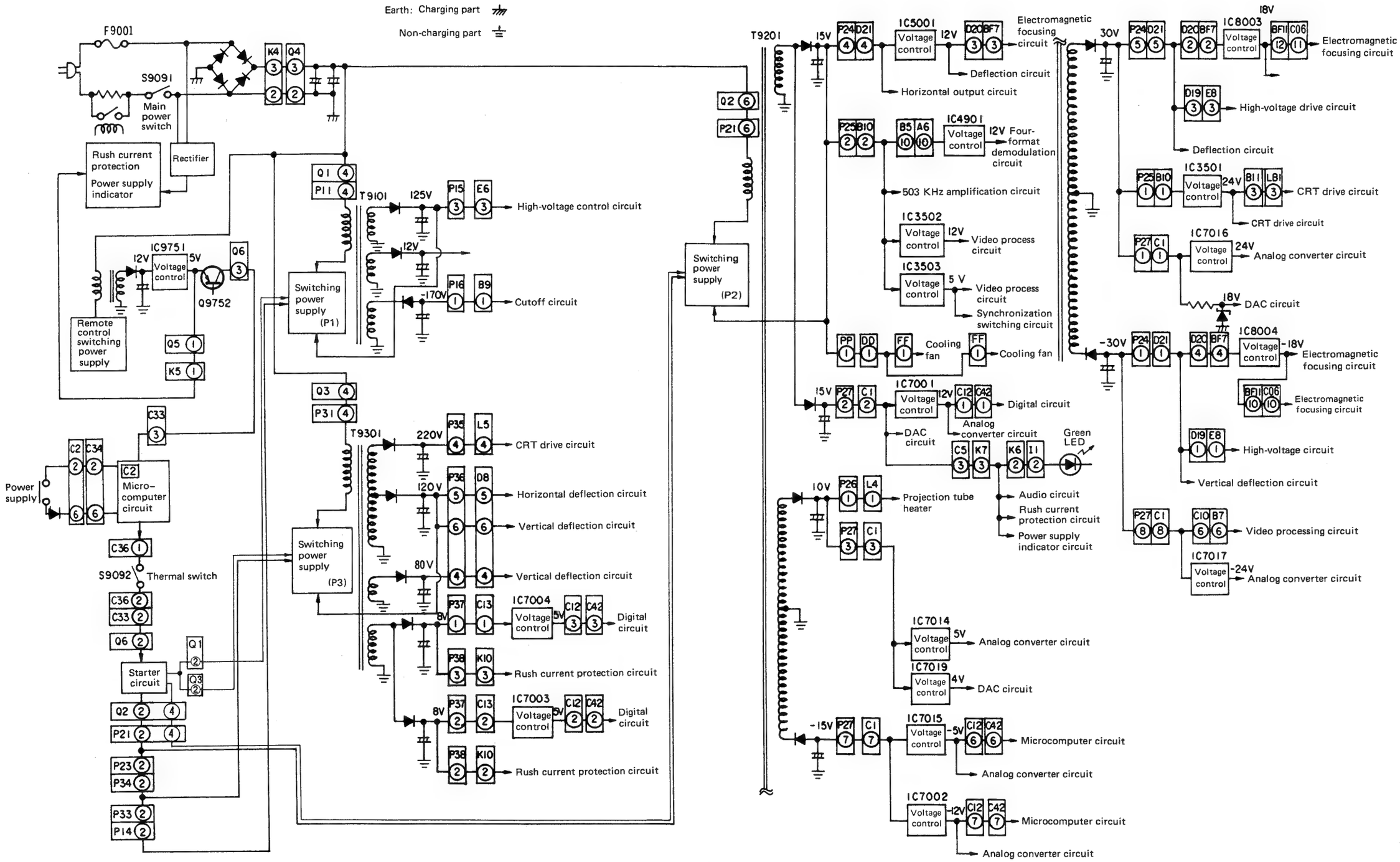
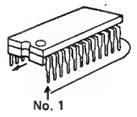


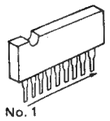
Fig. 3 Power supply block diagram.

Terminal Guide of IC's and Transistors

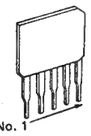


AN6914	8 Pin	TC4052BP	16 Pin
µPC4558		TC4049BP	
		TC4053BP	
MN4066B	14 Pin	TC4040BP	
AN610P		TC4528BP	
AN6554		TA8728P	
TC4023BP		TL8803P	
TC4082BP		LS138	
TC4024BP		AN5436N	18 Pin
TC4078BP		AN5905	
TC74HC03P			
PA0030			
TL084CN			

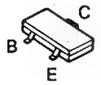
DAC8800 ..... 20 Pin
CXA1268P..... 28 Pin
M51387P ..... 30 Pin
TA8653N..... 64 Pin



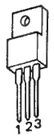
CX20125..... 8 Pin
AN5265 ..... 9 Pin
LA7222TV..... 12 Pin
AN5790N ..... 12 Pin
M51132L..... 14 Pin



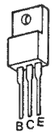
STK4112MK2 .. 18 Pin



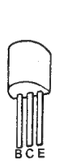
2SD601A
2SB709A



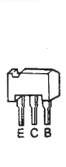
AN78M24 AN7824
AN78M12 AN7924
AN78N05 AN78L04
AN7812 AN7818
AN79M12 AN7918
AN7805 AN78L06
AN7905



2SD1264
2SA958
2SC2168
2SD1273
2SD1539LB
2SB1071LB

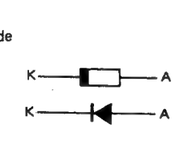


2SC1685
2SA564A
2SA879
2SC1318
2SC1573
2SC2295
2SD965
2SA1022

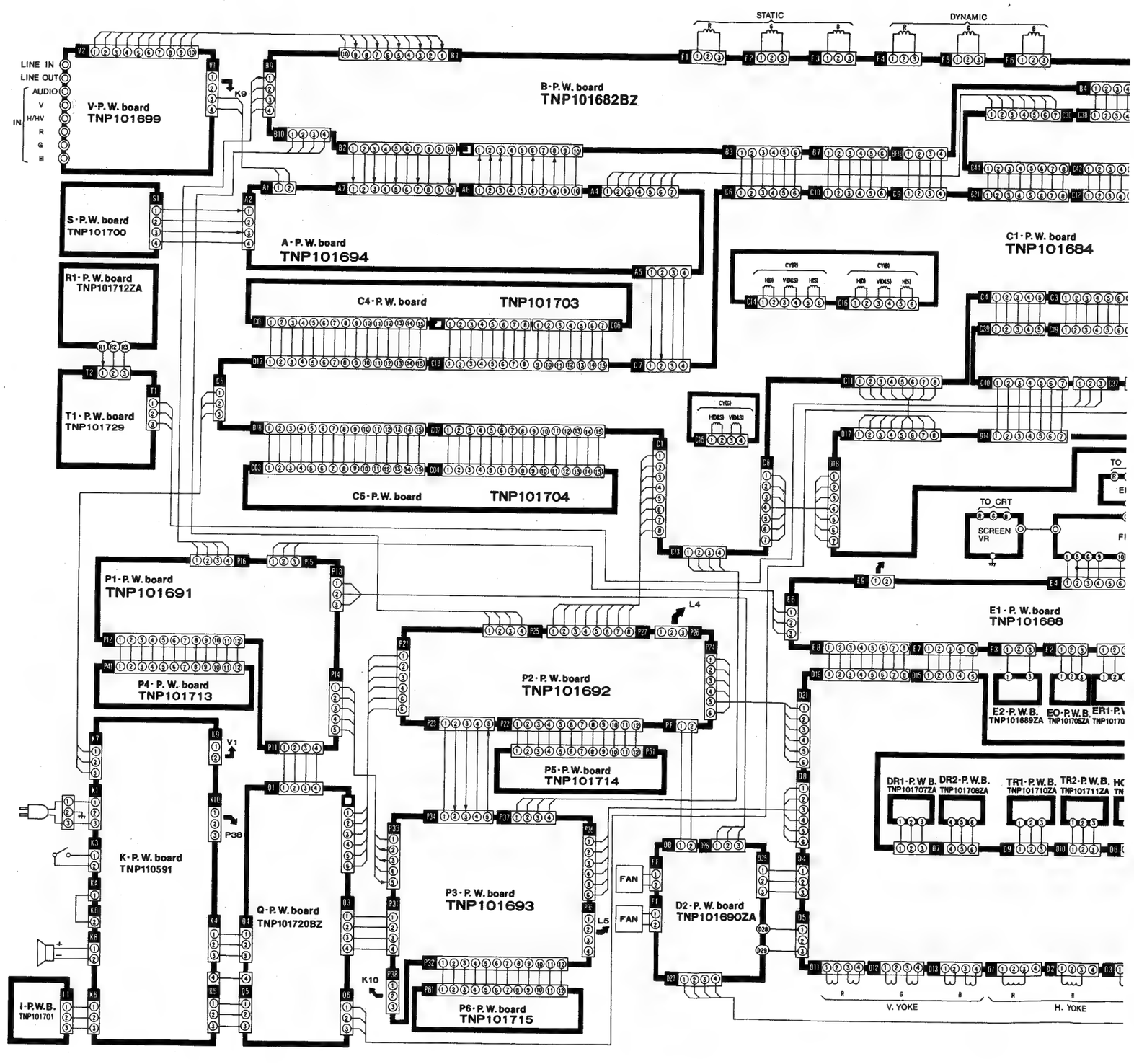


2SB643
2SD637
2SC2188

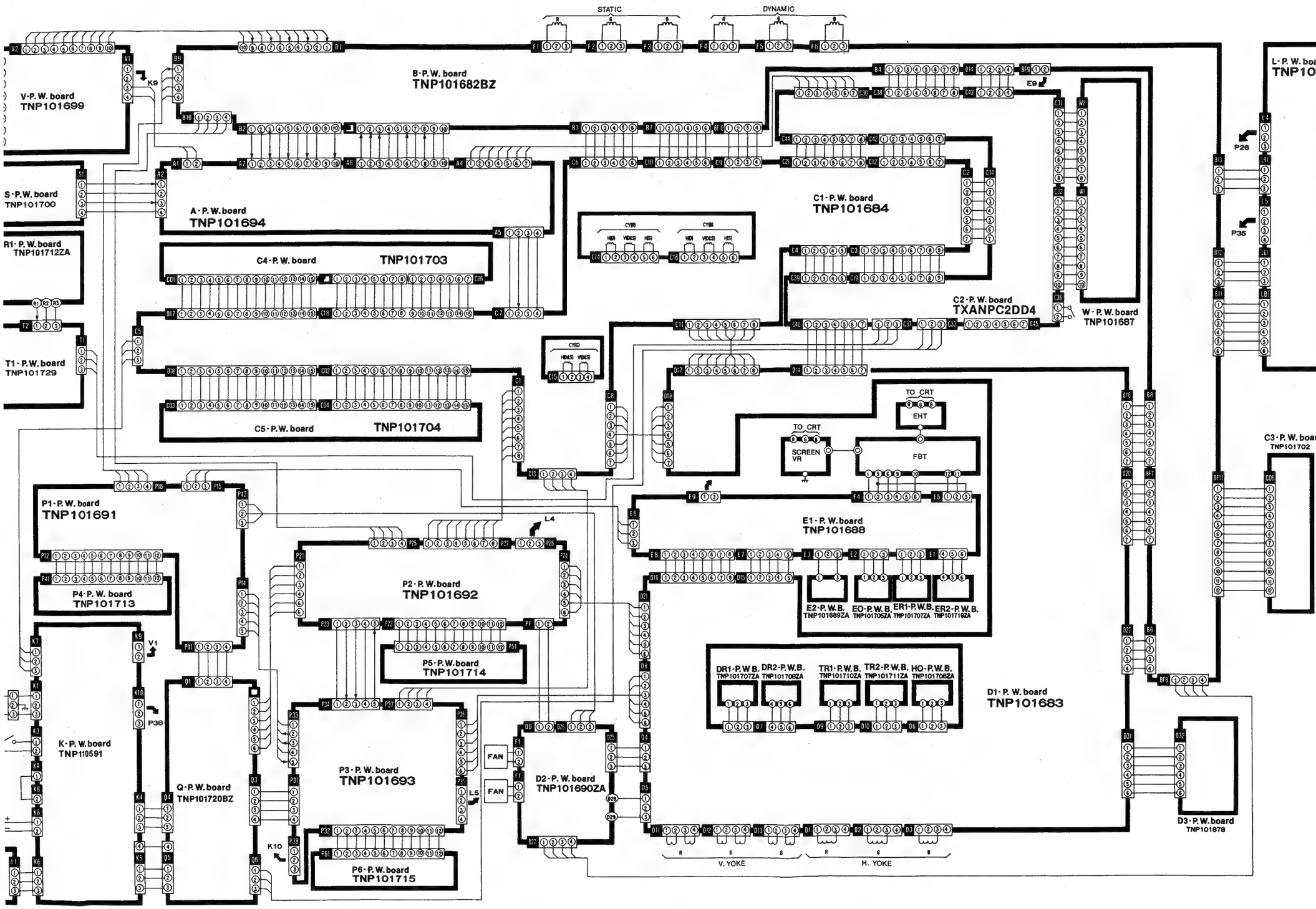
Diode



Interconnections



connections



Schematic Diagram

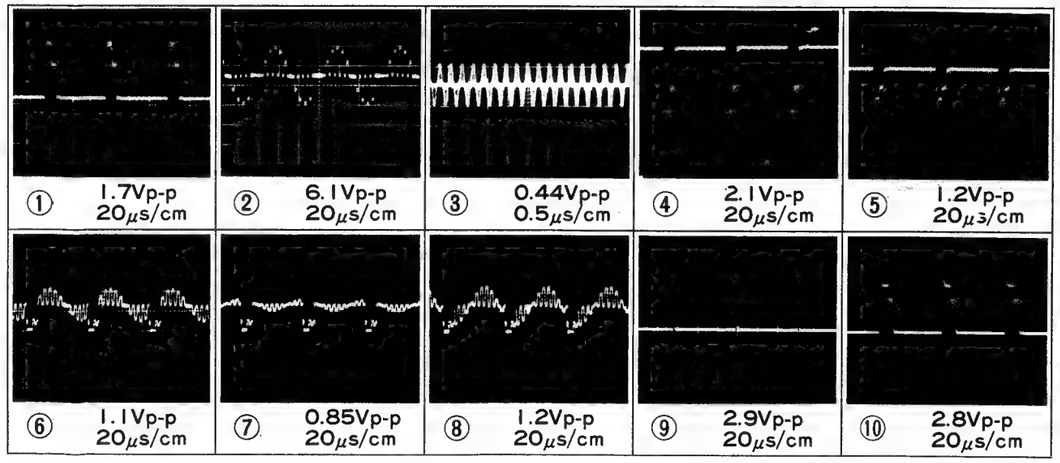
Important safety notice

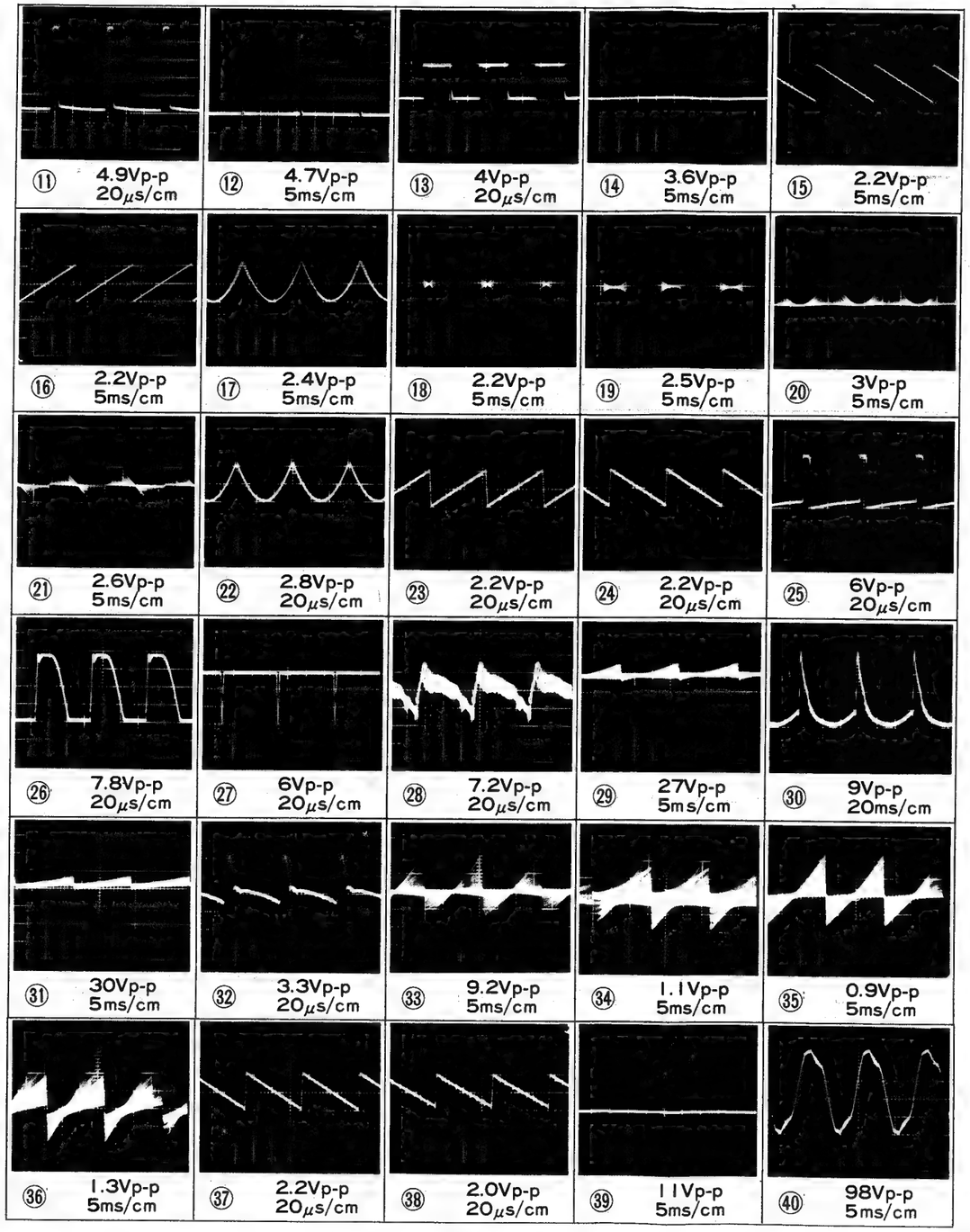
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

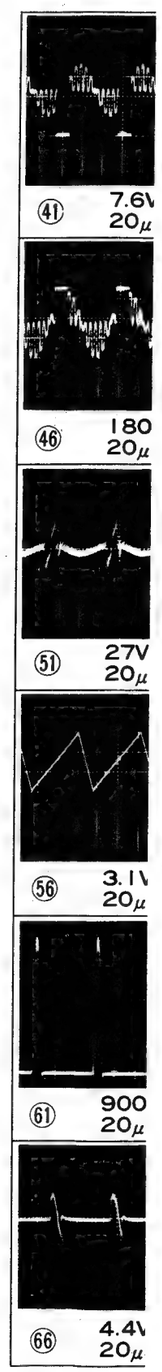
NOTE:

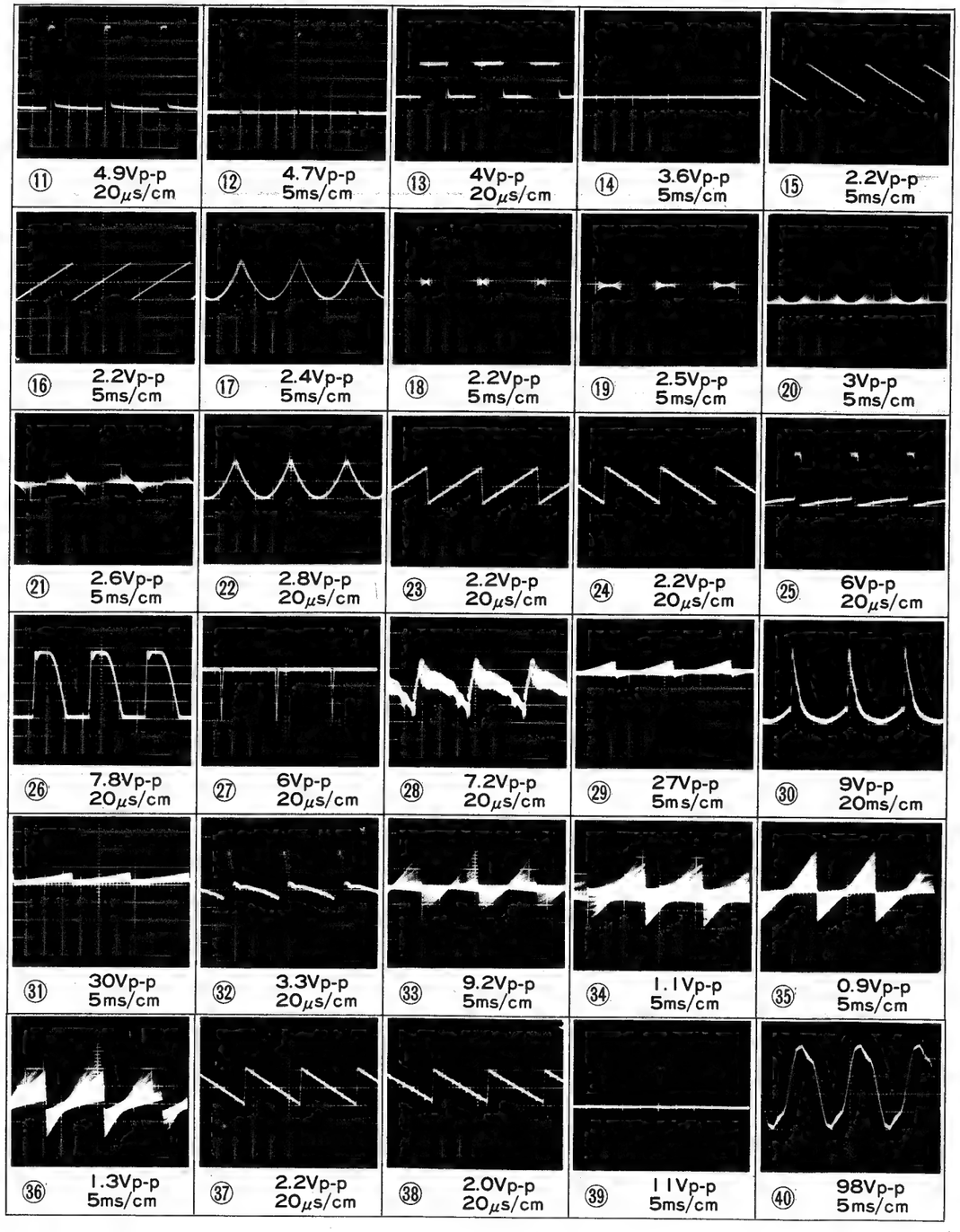
1. RESISTOR
   All resistors are carbon 1/8W resistor, unless otherwise noted the following marks.
   Unit of resistance is OHM (Ω), (K = 1,000, M = 1,000,000).
   - △ : Solid
   - □ : Wire Wound
   - Ⓕ : Non-Flamble
   - ◎ : Fixed Metal Film
   - ⊗ : Fuse
   - ● : Metal Oxide
   - Ⓛ : Lead Less Type
2. CAPACITOR
   All capacitors are ceramic 50V capacitor, unless otherwise noted the following marks.
   Unit of capacitance is μF, unless otherwise noted.
   - ⁺╫⁻ : Electrolytic
   - ⓃⓅ : Bipolar
   - Ⓩ : Z Type
   - Ⓣ : Dipped Tantalum
   - ⓉⒻ : TF Type
   - ◎ : Titanium Oxide
   - ● : Temperature Compensation
   - Ⓜ : Polyester
   - ⊠ : Polypropylene
   - ⊠ : Matalized Polyester
3. COIL
   Unit of inductance is μH.
4. TEST POINT
   - ● : Test point position
5. VOLTAGE MEASUREMENT
   Voltage is measured by a VTVM receiving colour bar signal, when all customer's controls are set to the maximum position.
6. When arrow mark (↗) is found, connection is easily found along with the direction of an arrow.
7. When schematic diagram of a board is described in more than two places, they are encircled with dotted line.....
8. ⇨ Video Signal
   ➡ R, G, B Signal
   ⇢ H/V, H, V Pulse
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

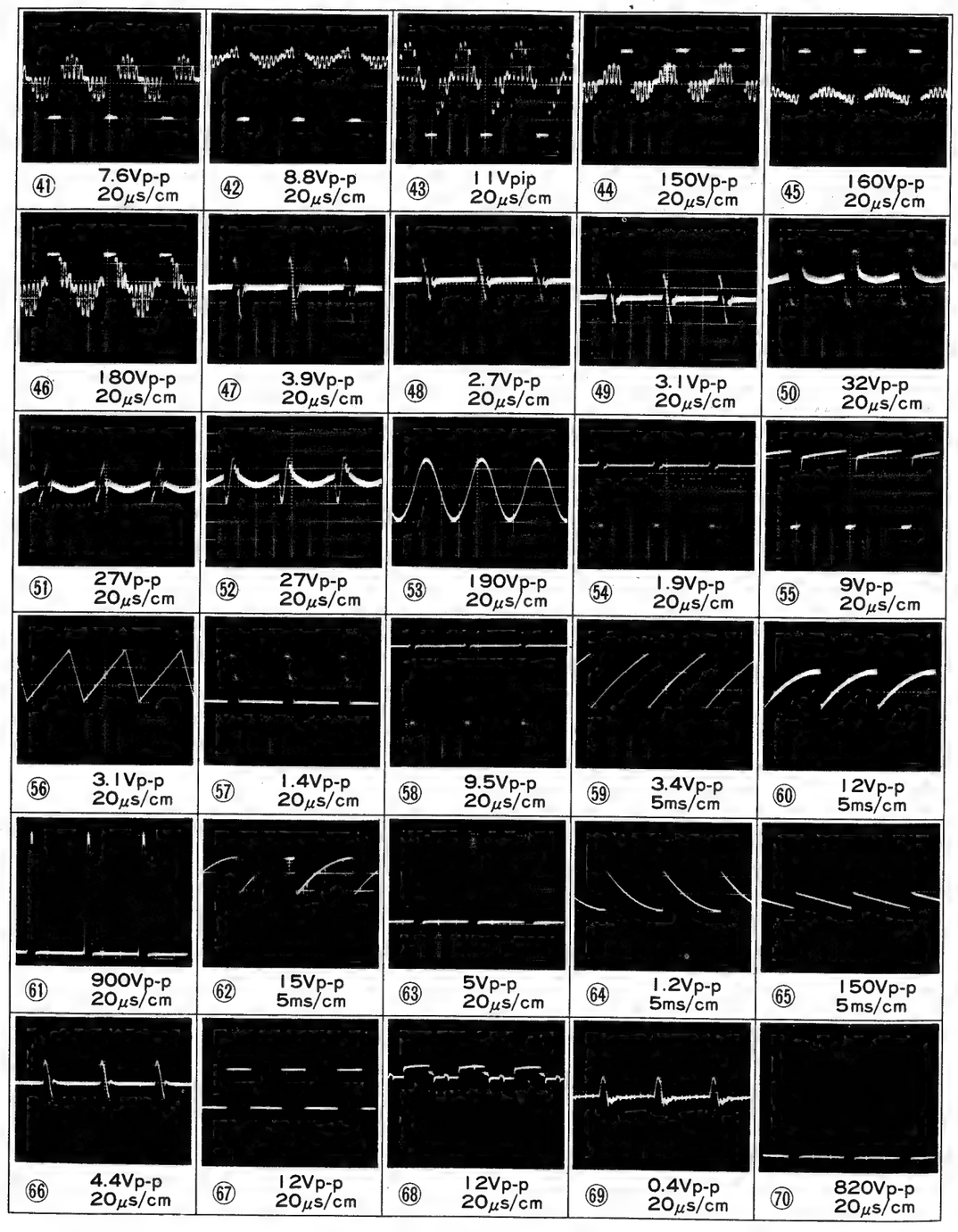
Waveform Table Number means one in the schematic diagram.








⑪ 4.9Vp-p 20μs/cm
⑫ 4.7Vp-p 5ms/cm
⑬ 4Vp-p 20μs/cm
⑭ 3.6Vp-p 5ms/cm
⑮ 2.2Vp-p 5ms/cm
⑯ 2.2Vp-p 5ms/cm
⑰ 2.4Vp-p 5ms/cm
⑱ 2.2Vp-p 5ms/cm
⑲ 2.5Vp-p 5ms/cm
⑳ 3Vp-p 5ms/cm
㉑ 2.6Vp-p 5ms/cm
㉒ 2.8Vp-p 20μs/cm
㉓ 2.2Vp-p 20μs/cm
㉔ 2.2Vp-p 20μs/cm
㉕ 6Vp-p 20μs/cm
㉖ 7.8Vp-p 20μs/cm
㉗ 6Vp-p 20μs/cm
㉘ 7.2Vp-p 20μs/cm
㉙ 27Vp-p 5ms/cm
㉚ 9Vp-p 20ms/cm
㉛ 30Vp-p 5ms/cm
㉜ 3.3Vp-p 20μs/cm
㉝ 9.2Vp-p 5ms/cm
㉞ 1.1Vp-p 5ms/cm
㉟ 0.9Vp-p 5ms/cm
㊱ 1.3Vp-p 5ms/cm
㊲ 2.2Vp-p 20μs/cm
㊳ 2.0Vp-p 20μs/cm
㊴ 11Vp-p 5ms/cm
㊵ 98Vp-p 5ms/cm


㊶ 7.6Vp-p 20μs/cm
㊷ 8.8Vp-p 20μs/cm
㊸ 11Vpip 20μs/cm
㊹ 150Vp-p 20μs/cm
㊺ 160Vp-p 20μs/cm
㊻ 180Vp-p 20μs/cm
㊼ 3.9Vp-p 20μs/cm
㊽ 2.7Vp-p 20μs/cm
㊾ 3.1Vp-p 20μs/cm
㊿ 32Vp-p 20μs/cm
(51) 27Vp-p 20μs/cm
(52) 27Vp-p 20μs/cm
(53) 190Vp-p 20μs/cm
(54) 1.9Vp-p 20μs/cm
(55) 9Vp-p 20μs/cm
(56) 3.1Vp-p 20μs/cm
(57) 1.4Vp-p 20μs/cm
(58) 9.5Vp-p 20μs/cm
(59) 3.4Vp-p 5ms/cm
(60) 12Vp-p 5ms/cm
(61) 900Vp-p 20μs/cm
(62) 15Vp-p 5ms/cm
(63) 5Vp-p 20μs/cm
(64) 1.2Vp-p 5ms/cm
(65) 150Vp-p 5ms/cm
(66) 4.4Vp-p 20μs/cm
(67) 12Vp-p 20μs/cm
(68) 12Vp-p 20μs/cm
(69) 0.4Vp-p 20μs/cm
(70) 820Vp-p 20μs/cm

A-P.W. board TNP101694

R1-P.W. board TPN101712ZA

T1-P.W. board TPN101729

V-P.W. board TNP101699

S-P.W. board TNP101700

IC4002 TL8803P CCD DELAY

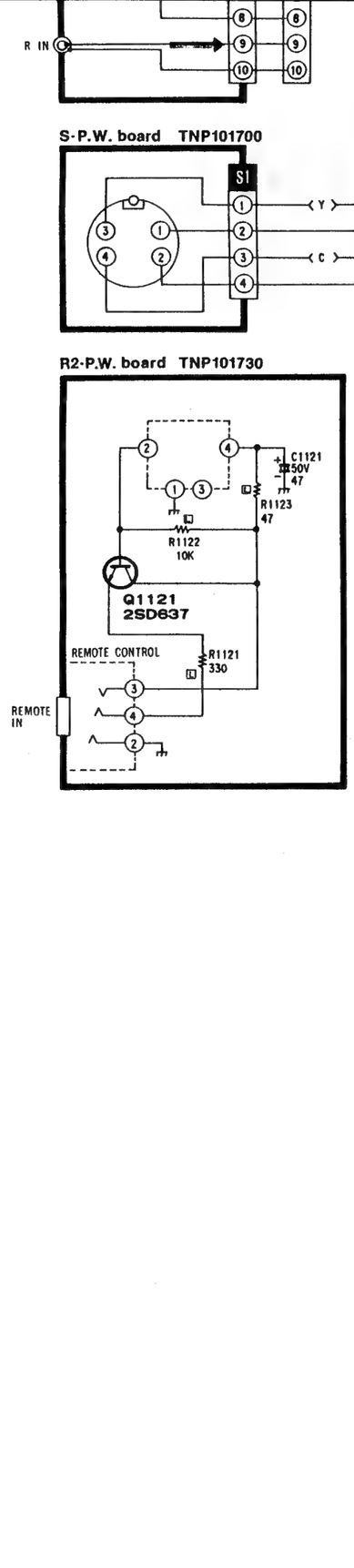
IC4101 LA7222-TV INPUT SELECTOR

IC4001 MC13528P V.SHAPER COMB

Q4001~4003,4005,4006
4009~4011
4106~4105,4107,4108
4109,4304,4306,4401
4403,4404,4405,4406
2SD601A(W)

S-P.W. board TNP101700

R2-P.W. board TNP101730



IC4301 CX20125 BLACK LEVEL

BLACK | CONTROL | DC | CLAMP

Q4103 Q4107 Q4108

Q4109

Q4406 AMP

IC4401 PA0030 H.OUTLINE SHAPER

CTL | GAIN | OUT | INV

SUB SHARP

Q4104 Q4105 Q4106

Q4003,4005,4006
Q4011
Q4105,4107,4108
Q4304,4306,4401
Q4404,4405,4406
2SB709A(W)

Q4004,4007,4008,4106
4305,4402
2SB709A(W)

Q4103,4107,4108
SYNC.AMP

Q4306 UN2212 MUTE

Q4307 UN2212 MUTE

Q4305 Q4306 Q4304 Q4401 Q4402 Q4404 Q4405 Q4403 Q4407

IC4701
TA8653N
TV SYSTEM DEMODU.

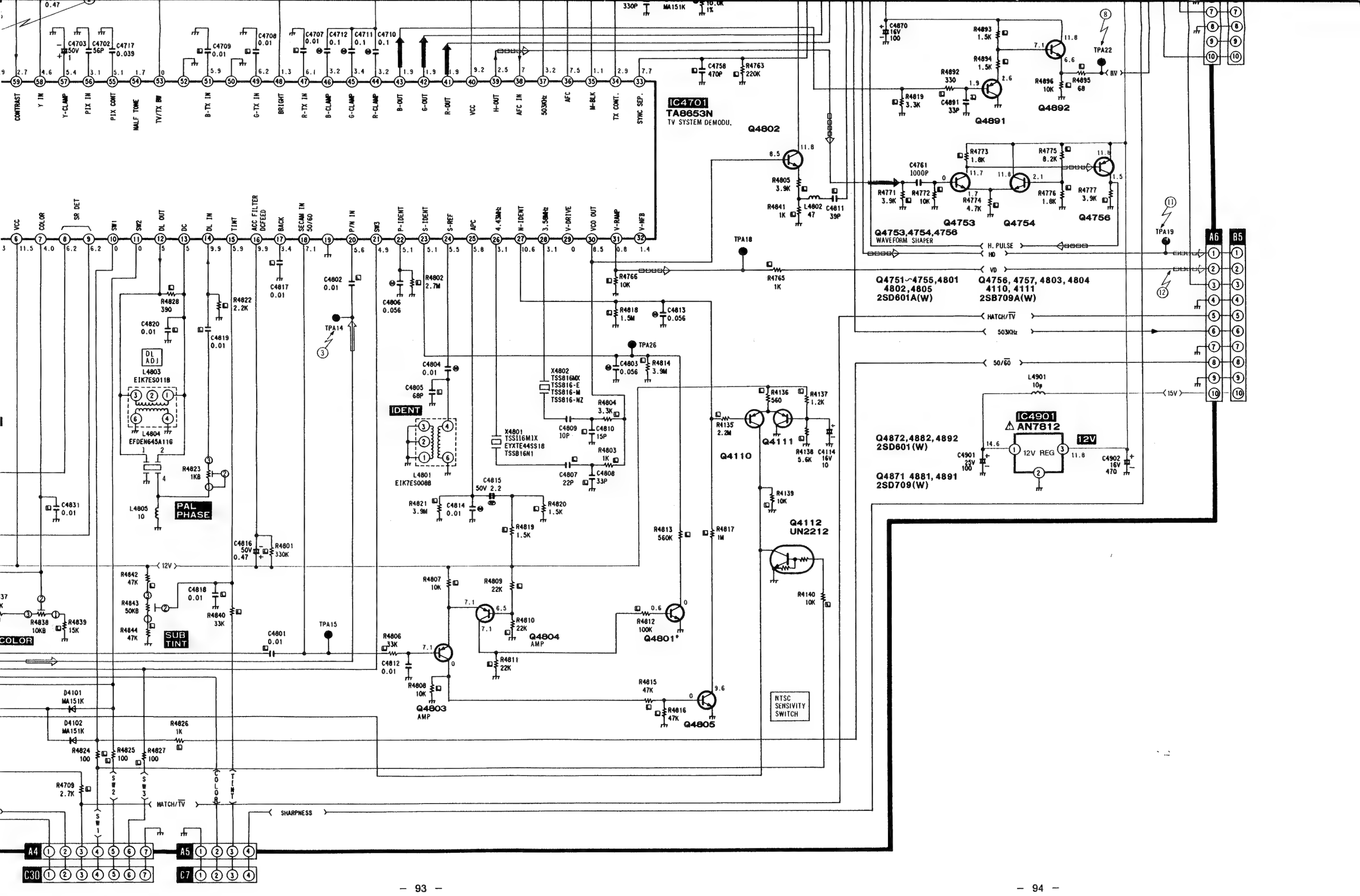
Q4802

Q4752 Q4757 Q4755 Q4751

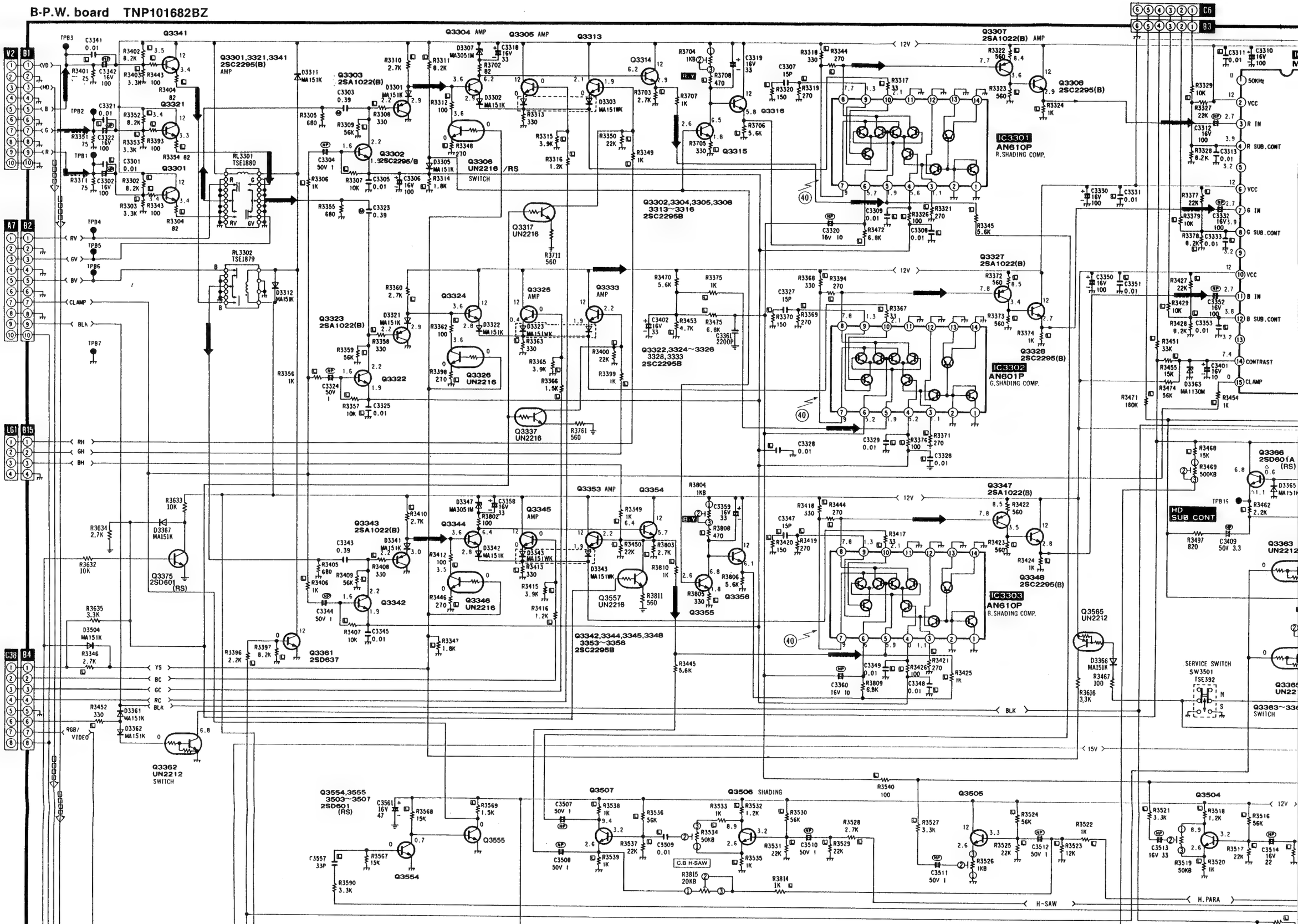
Q4872 Q4871 Q4882 Q4881 Q4892 Q4891

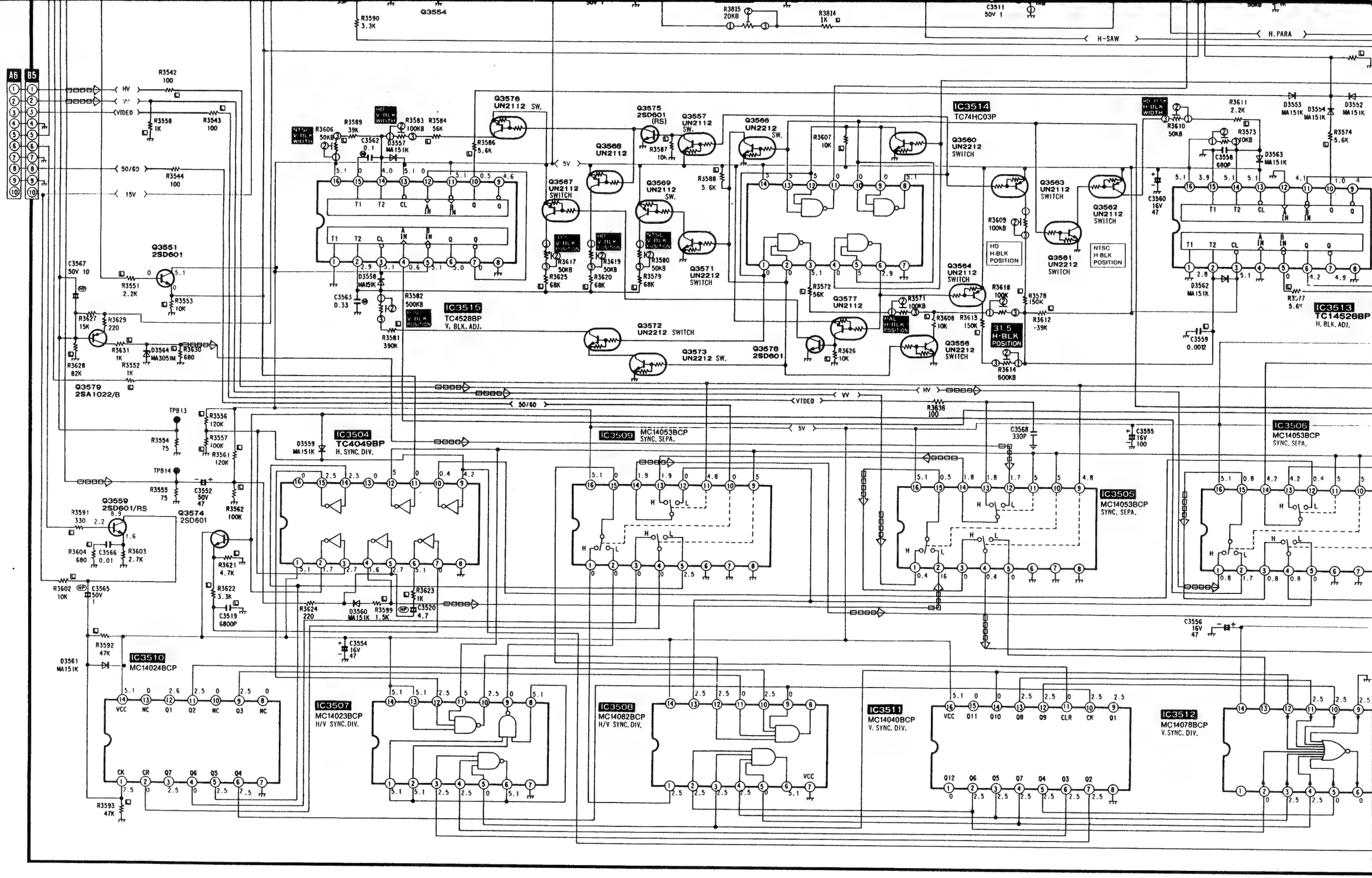
CONTRAST | Y IN | Y-CLAMP | PIX IN | PIX CONT | HALF TONE | TV/TX SW | B-TX IN | G-TX IN | BRIGHT | R-TX IN | B-CLAMP | G-CLAMP | R-CLAMP | B-OUT | G-OUT | R-OUT | VCC | H-OUT | AFC IN | 503Khz | AFC | M-BLK | TX CONT. | SYNC SEP.

A7 B2


IC4701
TA8653N
TV SYSTEM DEMODU.
CONTRAST
Y IN
Y-CLAMP
PIX IN
PIX CONT
HALF TONE
TV/TX SW
B-TX IN
G-TX IN
BRIGHT
R-TX IN
B-CLAMP
G-CLAMP
R-CLAMP
B-OUT
G-OUT
R-OUT
VCC
H-OUT
AFC IN
503KHz
AFC
M-BLK
TX CONT.
SYNC SEP.
VCC
COLOR
SR DET
SW1
SW2
DL OUT
DC
DL IN
TINT
ACC FILTER DCFEED
BACK
SECAM ID 50/60
P/N IN
SW3
P-IDENT
S-IDENT
S-REF
APC
4.43MHz
N-IDENT
3.58MHz
V-DRIVE
VCO OUT
V-RAMP
V-AFB
Q4802
Q4753,4754,4756
WAVEFORM SHAPER
Q4753
Q4754
Q4756
Q4751~4755,4801
4802,4805
2SD601A(W)
Q4756, 4757, 4803, 4804
4110, 4111
2SB709A(W)
H. PULSE
HD
VD
HATCH/TV
503KHz
50/60
15V
IC4901
AN7812
12V REG
12V
Q4872,4882,4892
2SD601(W)
Q4871 4881, 4891
2SD709(W)
Q4892
Q4891
TPA22
TPA19
TPA18
TPA14
TPA26
TPA15
DL ADJ
L4803
EIK7ES011B
L4804
EFDEN645A11G
PAL PHASE
L4805
IDENT
L4801
EIK7ES008B
X4802
TSS816MX
TSS816-E
TSS816-M
TSS816-NZ
X4801
TSS116M1X
EYXTE44SS18
TSS816N1
SUB TINT
Q4110
Q4111
Q4112
UN2212
Q4804
AMP
Q4803
AMP
Q4801*
Q4805
NTSC SENSIVITY SWITCH
D4101
MA151K
D4102
MA151K
12V
MATCH/TV
SHARPNESS
A4
A5
A6
B5
C30
C7

B-P.W. board TNP101682BZ




A6 B5
HV
VV
VIDEO
50/60
15V
Q3551 2SD601
Q3579 2SA1022/B
Q3559 2SD601/RS
Q3574 2SD601
IC3504 TC4049BP H. SYNC. DIV.
IC3509 MC14053BCP SYNC. SEPA.
IC3505 MC14053BCP SYNC. SEPA.
IC3506 MC14053BCP SYNC. SEPA.
IC3510 MC14024BCP
IC3507 MC14023BCP H/V SYNC. DIV.
IC3508 MC14082BCP H/V SYNC. DIV.
IC3511 MC14040BCP V. SYNC. DIV.
IC3512 MC14078BCP V. SYNC. DIV.
IC3515 TC4528BP V. BLK. ADJ.
IC3514 TC74HC03P
IC3513 TC14528BP H. BLK. ADJ.
Q3554
Q3576 UN2112 SW.
Q3575 2SD601 (RS)
Q3557 UN2112 SW.
Q3566 UN2212 SW.
Q3568 UN2112
Q3567 UN2112 SWITCH
Q3569 UN2112 SW.
Q3571 UN2212 SWITCH
Q3572 UN2212 SWITCH
Q3573 UN2212 SW.
Q3578 2SD601
Q3577 UN2112
Q3564 UN2112 SWITCH
Q3556 UN2212 SWITCH
Q3560 UN2212 SWITCH
Q3563 UN2112 SWITCH
Q3561 UN2212 SWITCH
Q3562 UN2112 SWITCH
H-SAW
H.PARA
5V
HD V.BLK POSITION
NTSC V.BLK POSITION
HD H-BLK POSITION
NTSC H-BLK POSITION
31.5 H-BLK POSITION

L-P.W. board TNP101695

LR-P.W. board TNP101696AA

LG-P.W. board TNP101697AA

LB-P.W. board TNP101698AA

C3-P.W. board TNP101702

IC3304 M51387P RGB CONT.

IC3501 AN78M24

IC3502 AN78M12

IC3503 AN78N05

Q2001 2SC4156

Q2002 2SC3526H

Q2003 2SC3503(D.E)

Q2004 2SA1381(E.D)

Q2001,2003,2004 DRIVE

Q2101 2SC4156

Q2102 2SC3526H

Q2103 2SC3503(E.D)

Q2104 2SA1381(D.E)

Q2101,2103,2104 DRIVE

Q2201 2SC4156

Q2202 2SC3526H

Q2203 2SC3503(E.D)

Q2204 2SA1381DMLN 2SA1381EMLN

Q2201,2203,2204 DRIVE

Q3309 2SC2188

Q3310 2SA1005 AMP

Q3311 2SA1005

Q3312 2SC3526H

Q3329 2SC2188

Q3330 2SA1005

Q3331 2SA1005

Q3332 2SC3526H

Q3349 2SC2188

Q3350 2SA1005

Q3351 2SA1005

Q3352 2SC3526H

Q3370~3372 2SC2295B

Q3373 2SA1022(B)

Q3374 2SD601A

Q3501 2SB1011

Q3502 2SD601

Q3363 UN2212

Q3364 UN2212

Q3365 UN2212

Q3366 2SD601A (RS)

Q3367 2SD601A (RS)

Q3503

CH1101 STK4275

TXFCRTRKSZ (PT-B1010E) TXFCRTRKTZ (PT-B1010EF)

TXFCRTGKSZ (PT-B1010E) TXFCRTGKTZ (PT-B1010EF)

TXFCRTBKSZ (PT-B1010E) TXFCRTBKTZ (PT-B1010EF)

R.SCREEN

G.SCREEN

B.SCREEN

H.OUT

R DRIVE

G DRIVE

B DRIVE

RGB ABL

PEAK CONT.

CUT OFF

W. PEAK

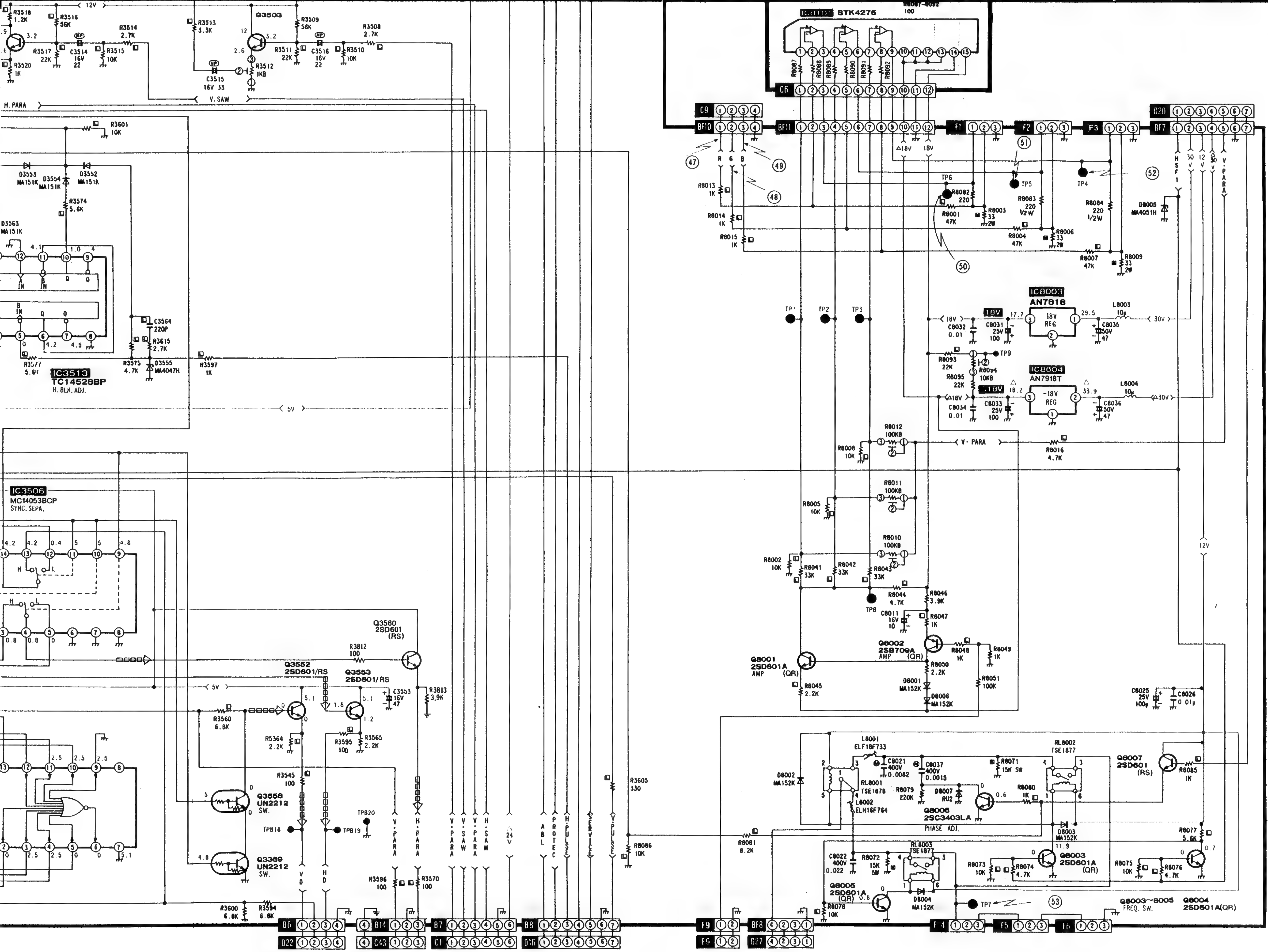
SUB. BRIGHT

SWITCH

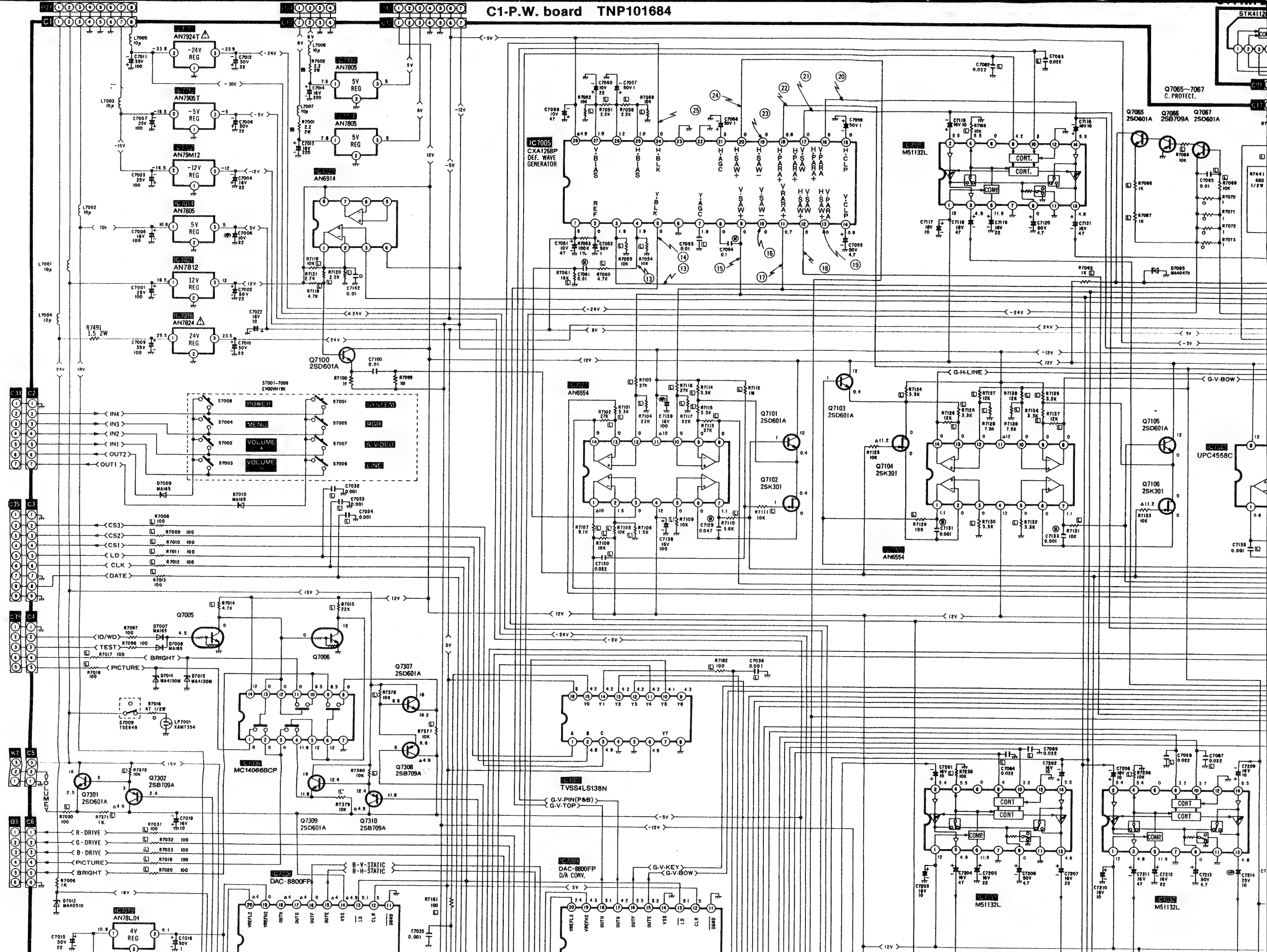
H.PARA

V.SAW

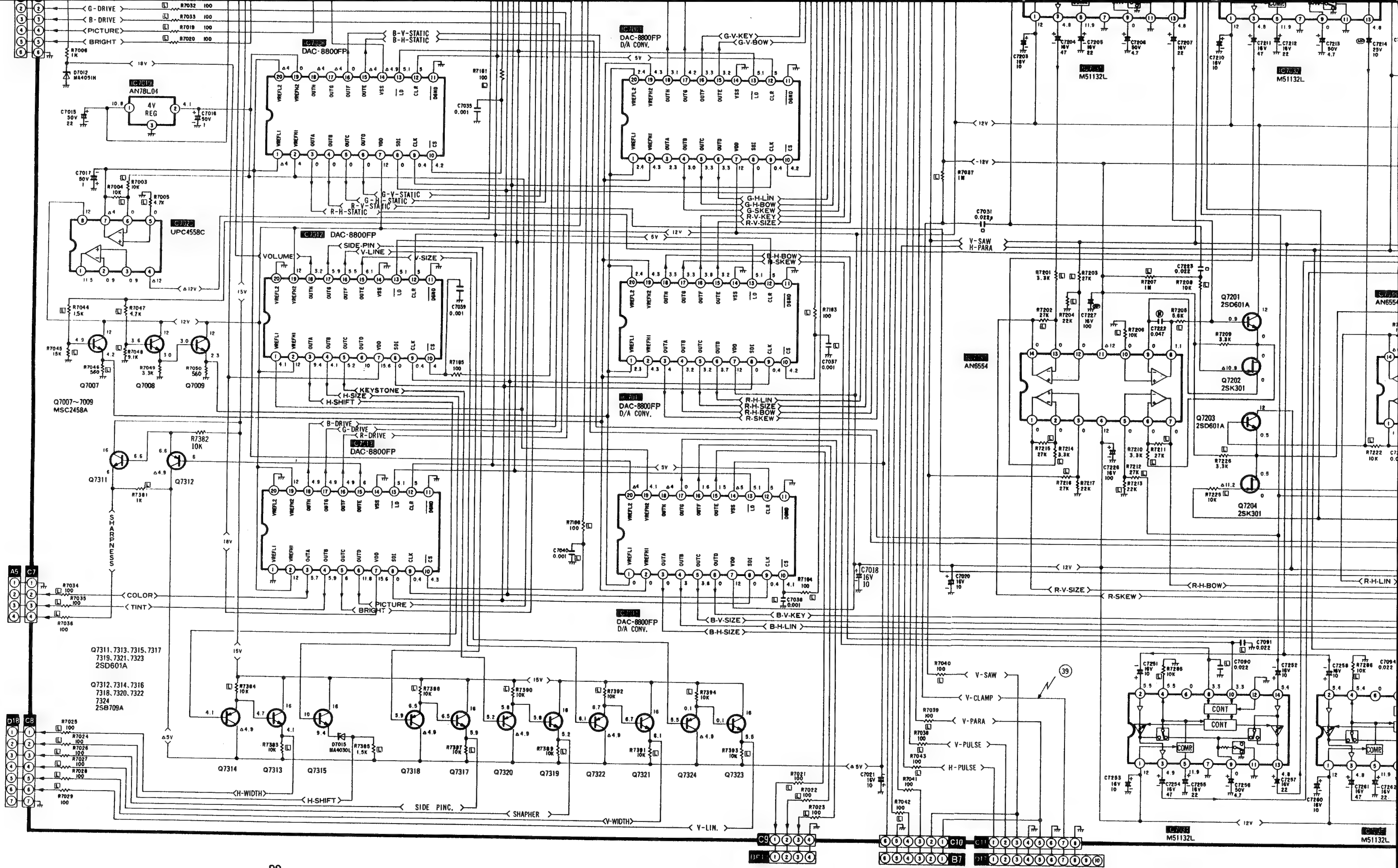
DRIVE



IC8101 STK4275
IC3513
TC14528BP
H. BLK. ADJ.
IC3506
MC14053BCP
SYNC. SEPA.
IC8003
AN7818
IC8004
AN7918T
Q3503
Q3580
2SD601
(RS)
Q3552
2SD601/RS
Q3553
2SD601/RS
Q3558
UN2212
SW.
Q3369
UN2212
SW.
Q8001
2SD601A
AMP
(QR)
Q8002
2SB709A
AMP
(QR)
Q8006
2SC3403LA
PHASE ADJ.
Q8007
2SD601
(RS)
Q8003
2SD601A
(QR)
Q8005
2SD601A
(QR)
Q8003~8005
FREQ. SW.
Q8004
2SD601A(QR)
L8001
ELF18F733
L8002
ELH16F764
RL8001
TSE1878
RL8002
TSE1877
RL8003
TSE1877
H. PARA
V. SAW
V - PARA



C1-P.W. board TNP101684
AN7924T
-24V REG
AN7905T
-5V REG
AN79M12
-12V REG
AN7805
5V REG
AN7812
12V REG
AN7824
24V REG
AN6914
Q7100 2SD601A
S7001~7006 EVQ0VH19K
POWER
MENU
VOLUME +
VOLUME −
SYSTEM
RGB
S-VIDEO
LINE
IN4
IN3
IN2
IN1
OUT2
OUT1
CS3
CS2
CS1
LD
CLK
DATE
ID/WD
TEST
BRIGHT
PICTURE
Q7005
Q7006
Q7307 2SD601A
Q7308 2SB709A
Q7309 2SD601A
Q7310 2SB709A
MC14066BCP
Q7301 2SD601A
Q7302 2SB709A
VOLUME
R-DRIVE
G-DRIVE
B-DRIVE
AN78L04
4V REG
DAC-8800FP
IC7005 CXA1268P DEF. WAVE GENERATOR
V-BIAS
H-BIAS
H-BLK
H-AGC
H-SAW+
H-SAW−
H-PARA+
H-V-SAW
H-V-PARA
H-CLP
Y-BLK
Y-AGC
V-SAW+
V-SAW−
V-PARA+
V-CLP
AN6554
Q7101 2SD601A
Q7102 2SK301
Q7103 2SD601A
Q7104 2SK301
Q7105 2SD601A
Q7106 2SK301
UPC4558C
M51132L
CONT.
COMP
Q7065~7067 C.PROTECT.
Q7065 2SD601A
Q7066 2SB709A
Q7067 2SD601A
STK4112
G-H-LINE
G-V-BOW
TVSS4LS138N
G-V-PIN(P&B)
G-V-TOP
B-V-STATIC
B-H-STATIC
G-V-KEY
G-V-BOW
DAC-8800FP D/A CONV.
VREFL2
VREFH2
OUTH
OUTG
OUTF
OUTE
VSS
LD
CLR
DGND


DAC-8800FP
DAC-8800FP D/A CONV.
AN78L04
4V REG
UPC4558C
AN6554
M51132L
Q7007~7009 MSC2458A
Q7311, 7313, 7315, 7317 7319, 7321, 7323 2SD601A
Q7312, 7314, 7316 7318, 7320, 7322 7324 2SB709A
Q7201 2SD601A
Q7202 2SK301
Q7203 2SD601A
Q7204 2SK301
G-DRIVE
B-DRIVE
PICTURE
BRIGHT
COLOR
TINT
SHARPNESS
H-WIDTH
H-SHIFT
SIDE PINC.
SHAPHER
V-WIDTH
V-LIN.
V-SAW
V-CLAMP
V-PARA
V-PULSE
H-PULSE
H-PARA
R-V-SIZE
R-SKEW
R-H-BOW
R-H-LIN
KEYSTONE
H-SIZE
VOLUME
SIDE-PIN
V-LINE
V-SIZE
B-V-STATIC
B-H-STATIC
G-V-STATIC
G-H-STATIC
R-V-STATIC
R-H-STATIC
G-V-KEY
G-V-BOW
G-H-LIN
G-H-BOW
G-SKEW
R-V-KEY
R-V-SIZE
B-H-BOW
B-SKEW
R-H-LIN
R-H-SIZE
R-H-BOW
B-V-SIZE
B-H-SIZE
B-V-KEY
B-H-LIN
CONT
COMP

C4-P.W. board TNP101703

C5-P.W. board TNP101704

STK4112MK2

IC7102 STK4112MK2

STK4112MK2 IC7103

STK4112MK2 IC7104

Q7065~7067
C. PROTECT.

Q7065 2SD601A

Q7066 2SB709A

Q7067 2SD601A

CY(R)

CY(G)

CY(B)

TPC4

TPC5

TPC6

D7065 MA4047H

G-V-BOW

Q7105 2SD601A

Q7106 2SK301

IC7152 UPC4558C

Q7107 2SD601A

Q7108 2SK301

IC7101 M51132L

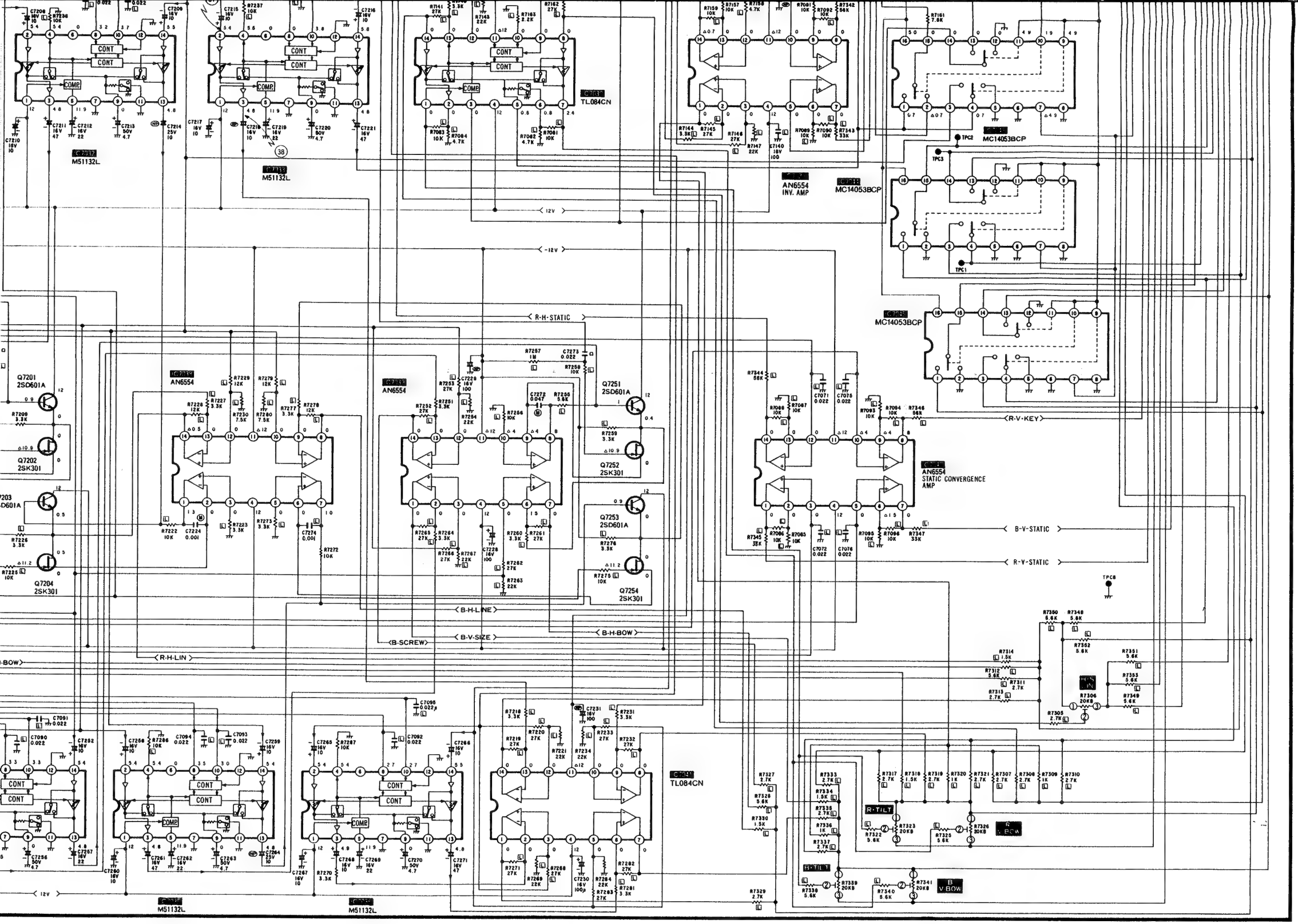
IC7108 M51132L

IC7122 M51132L

IC7201 TL084CN

G-V-STATIC
G-H-STATIC

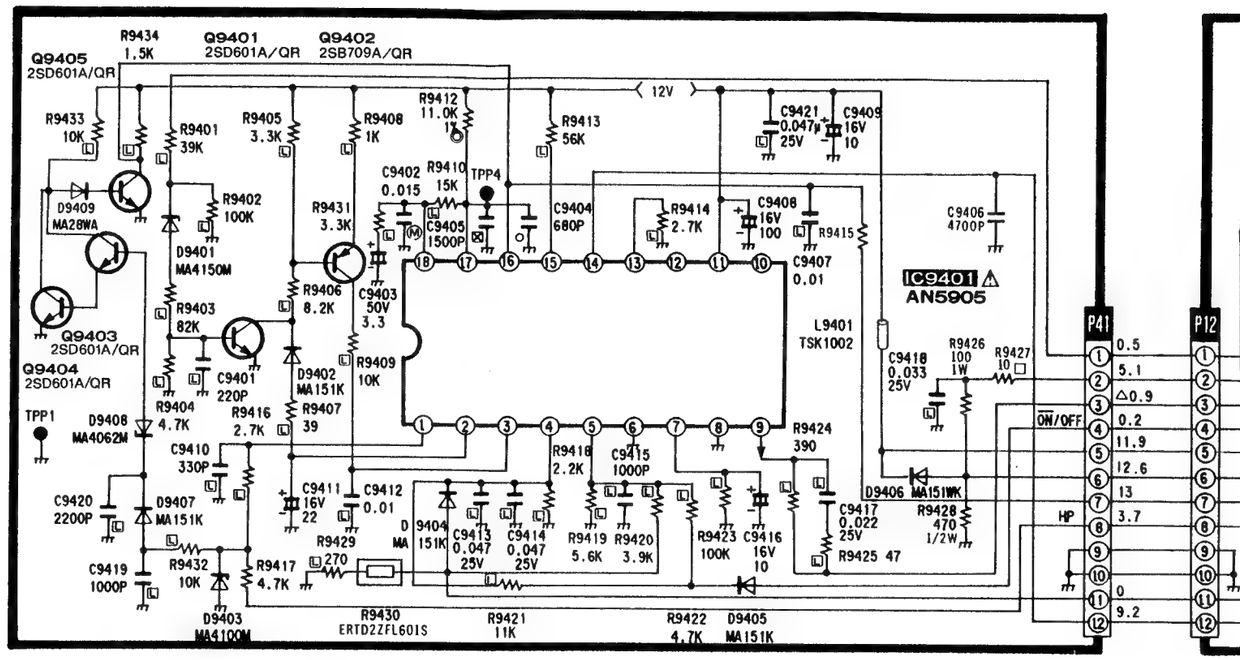
Q7011 2SD601A


IC7232
M51132L
IC7233
M51132L
IC7234
TL084CN
IC7235
AN6554
INV. AMP
IC7236
MC14053BCP
IC7237
MC14053BCP
IC7238
MC14053BCP
IC7239
AN6554
IC7240
AN6554
IC7241
AN6554
STATIC CONVERGENCE AMP
IC7242
M51132L
IC7243
M51132L
IC7244
TL084CN
Q7201 2SD601A
Q7202 2SK301
Q7203 2SD601A
Q7204 2SK301
Q7251 2SD601A
Q7252 2SK301
Q7253 2SD601A
Q7254 2SK301
CONT
COMP
12V
-12V
R-H-STATIC
R-H-LIN
B-H-LINE
B-V-SIZE
B-SCREW
B-H-BOW
R-V-KEY
B-V-STATIC
R-V-STATIC
TPC1
TPC2
TPC3
TPC8
R-TILT
B-TILT
H-S-LIN
R V.BOW
B V.BOW

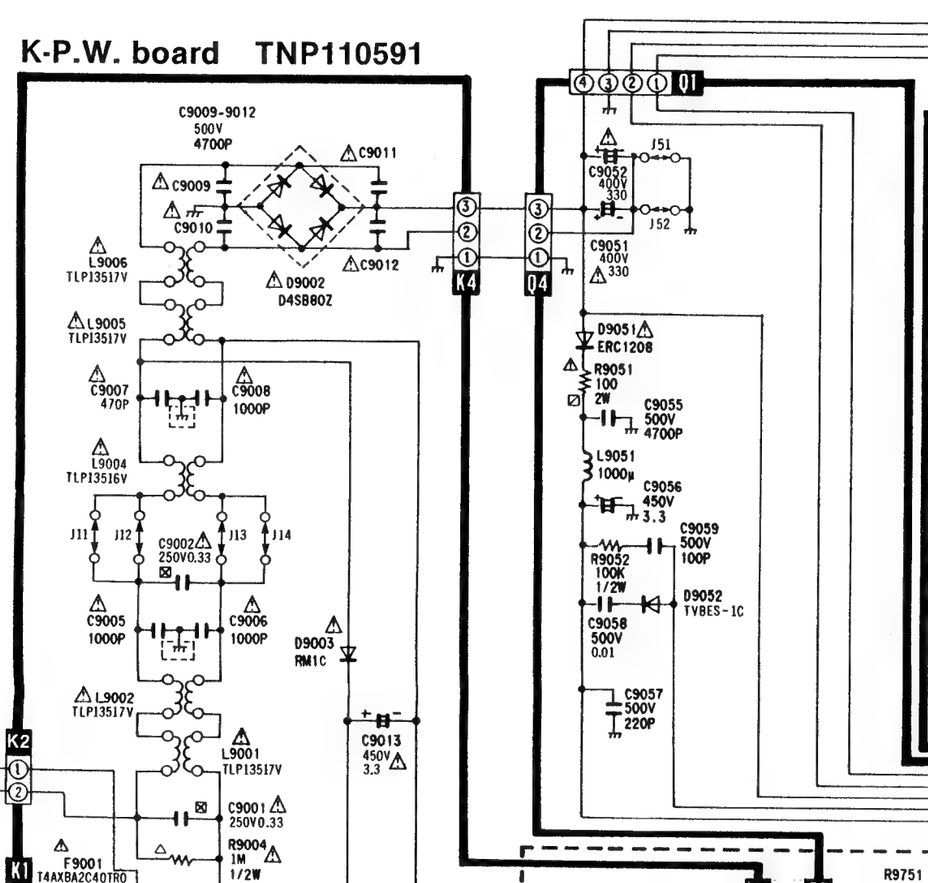
COLD

HOT

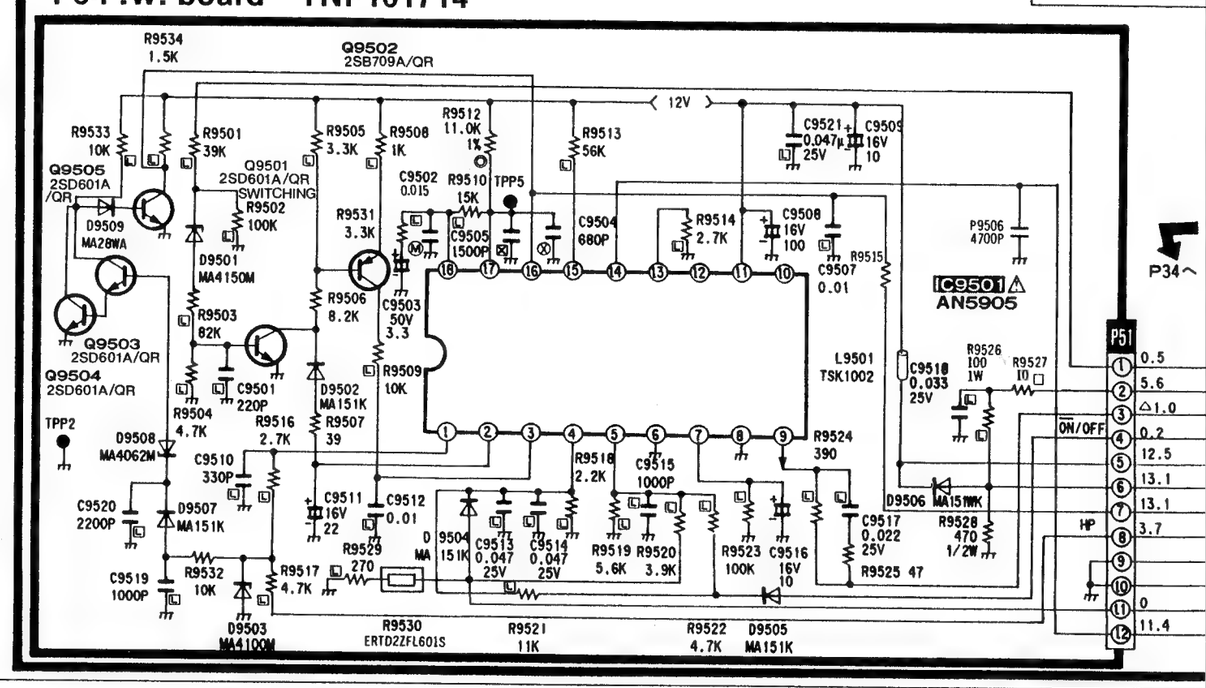
P4-P.W. board TNP101713



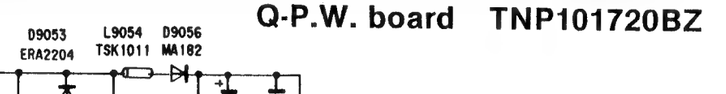
K-P.W. board TNP110591

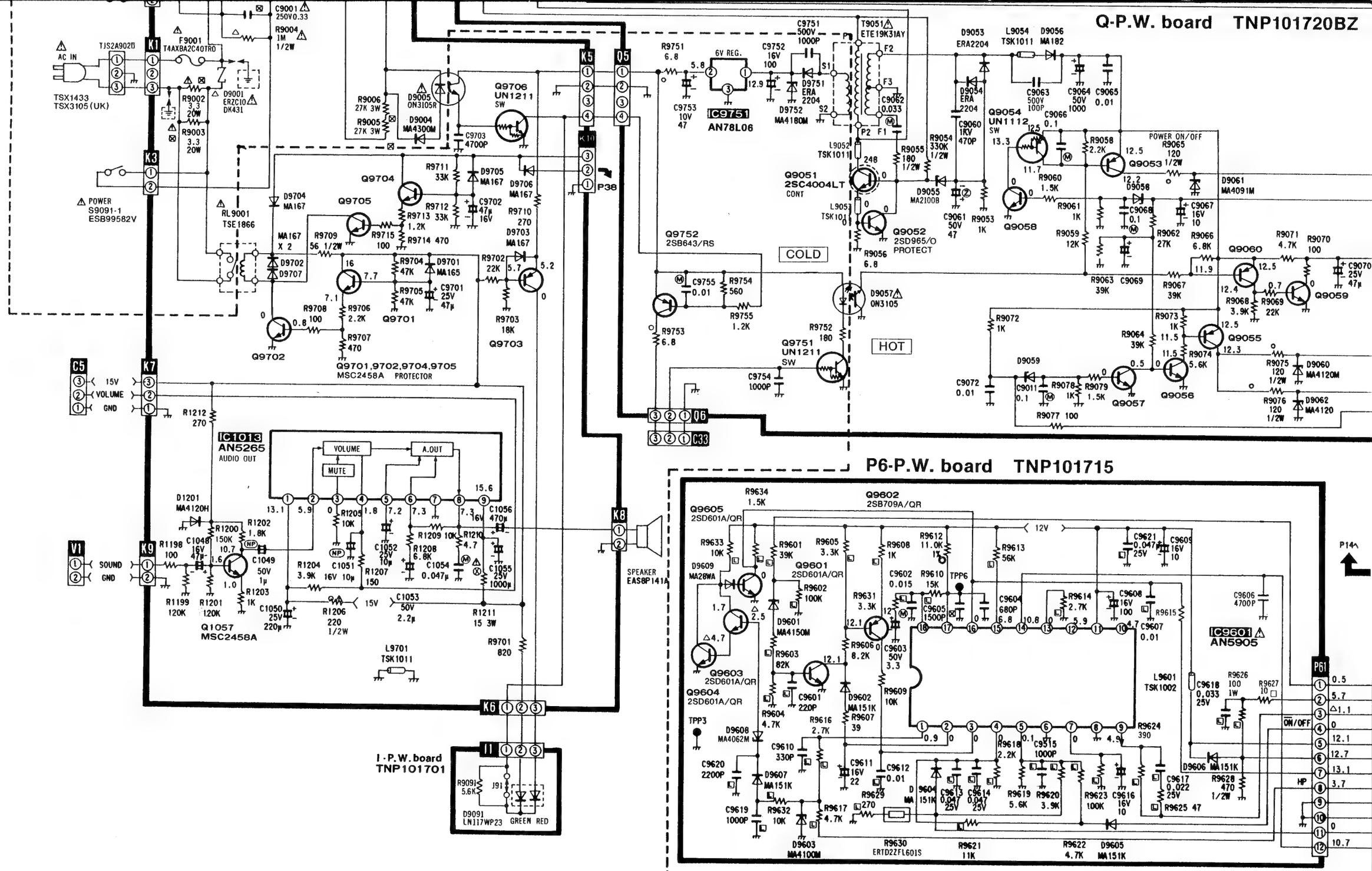


P5-P.W. board TNP101714



Q-P.W. board TNP101720BZ




Q-P.W. board TNP101720BZ
P6-P.W. board TNP101715
I-P.W. board TNP101701
AC IN
TJS2A902D
TSX1433
TSX3105(UK)
F9001
T4AXBA2C40TRO
D9001
ERZC10DK431
POWER
S9091-1
ESB99582V
RL9001
TSE1866
C9001
250V0.33
R9004
1M
1/2W
R9002
3.3
20W
R9003
3.3
20W
R9006
27K 3W
R9005
27K 3W
D9005
ON3105R
D9004
MA4300M
Q9706
UN1211
SW
C9703
4700P
Q9704
Q9705
Q9702
Q9701
Q9703
Q9701,9702,9704,9705
MSC2458A PROTECTOR
R9711
33K
R9712
R9713 33K
R9714 470
R9715
100
R9709
56 1/2W
R9708
100
R9706
2.2K
R9707
470
R9704
47K
R9705
47K
D9701
MA165
C9701
25V
47μ
R9702
22K
R9703
18K
D9702
D9707
D9704
MA167
D9705
MA167
D9706
MA167
MA167
X 2
D9703
MA167
R9710
270
C9702
47μ
16V
K1
K3
K5
K7
K8
K9
K10
K6
P38
Q5
Q6
Q33
C5
15V
VOLUME
GND
R1212
270
IC1013
AN5265
AUDIO OUT
VOLUME
A.OUT
MUTE
D1201
MA4120H
R1200
1.8K
R1202
150K
C1048
16V
47μ
C1049
50V
1μ
R1198
100
R1199
120K
R1201
120K
R1203
1K
Q1057
MSC2458A
R1204
3.9K
C1051
16V 10μ
R1205
10K
R1207
150
C1052
25V
10μ
R1208
6.8K
R1209 10K
R1210
4.7
C1054
0.047μ
C1055
25V
1000μ
C1056
470μ
16V
C1050
25V
220μ
R1206
220
1/2W
C1053
50V
2.2μ
R1211
15 3W
R9701
820
L9701
TSK1011
V1
SOUND
GND
K9
SPEAKER
EAS8P141A
I1
J91
R9091
5.6K
D9091
LN117WP23
GREEN RED
R9751
6.8
6V REG.
C9753
10V
47
IC9751
AN78L06
C9752
16V
100
C9751
500V
1000P
D9751
ERA
2204
D9752
MA4180M
T9051
ETE19K31AY
F2
F3
P2
F1
S1
S2
C9062
0.033
L9052
TSK1011
R9055
180
1/2W
D9055
MA2100B
R9054
330K
1/2W
Q9051
2SC4004LT
CONT
L9053
TSK1011
Q9052
2SD965/O
PROTECT
R9056
6.8
COLD
HOT
Q9752
2SB643/RS
C9755
0.01
R9754
560
R9755
1.2K
R9753
6.8
D9057
ON3105
R9752
180
Q9751
UN1211
SW
C9754
1000P
D9053
ERA2204
D9054
ERA
2204
C9060
1KV
470P
C9061
50V
47
R9053
1K
L9054
TSK1011
D9056
MA182
C9063
500V
100P
C9064
50V
1000
C9065
0.01
C9066
0.1
Q9054
UN1112
SW
Q9058
R9058
2.2K
POWER ON/OFF
R9065
120
1/2W
Q9053
D9058
D9061
MA4091M
R9060
1.5K
R9061
1K
R9059
12K
C9068
0.1
C9067
16V
10
R9062
27K
R9066
6.8K
R9063
39K
C9069
R9067
39K
Q9060
R9071
4.7K
R9070
100
C9070
25V
47μ
R9068
3.9K
R9069
22K
Q9059
R9072
1K
R9073
1K
R9064
39K
Q9055
R9074
5.6K
Q9056
D9059
C9011
0.1
R9078
1K
R9079
1.5K
Q9057
C9072
0.01
R9077 100
R9075
120
1/2W
D9060
MA4120M
R9076
120
1/2W
D9062
MA4120
R9634
1.5K
Q9602
2SB709A/QR
Q9605
2SD601A/QR
R9633
10K
D9609
MA28WA
R9601
39K
Q9601
2SD601A/QR
R9605
3.3K
R9608
1K
R9612
11.0K
1%
R9613
56K
12V
C9621
0.047
25V
C9609
16V
10
P14
R9602
100K
D9601
MA4150M
R9631
3.3K
C9602
0.015
R9610
15K
TPP6
C9605
1500P
C9604
680P
R9614
2.7K
C9608
16V
100
R9615
C9607
0.01
C9606
4700P
IC9601
AN5905
Q9603
2SD601A/QR
Q9604
2SD601A/QR
R9606
8.2K
C9603
50V
3.3
R9609
10K
L9601
TSK1002
C9618
0.033
25V
R9626
100
1W
R9627
10
P61
R9603
82K
C9601
220P
D9602
MA151K
R9607
39
R9604
4.7K
R9616
2.7K
TPP3
D9608
MA4062M
C9610
330P
C9611
16V
22
C9612
0.01
C9620
2200P
D9607
MA151K
C9619
1000P
R9632
10K
R9617
4.7K
R9629
270
D9604
MA151K
C9613
0.047
25V
C9614
0.047
25V
R9618
2.2K
C9615
1000P
R9619
5.6K
R9620
3.9K
R9623
100K
C9616
16V
10
C9617
0.022
25V
R9625 47
R9624
390
D9606 MA151K
R9628
470
1/2W
HP
ON/OFF
D9603
MA4100M
R9630
ERTD2ZFL601S
R9621
11K
R9622
4.7K
D9605
MA151K

P1-P.W. board TNP101691

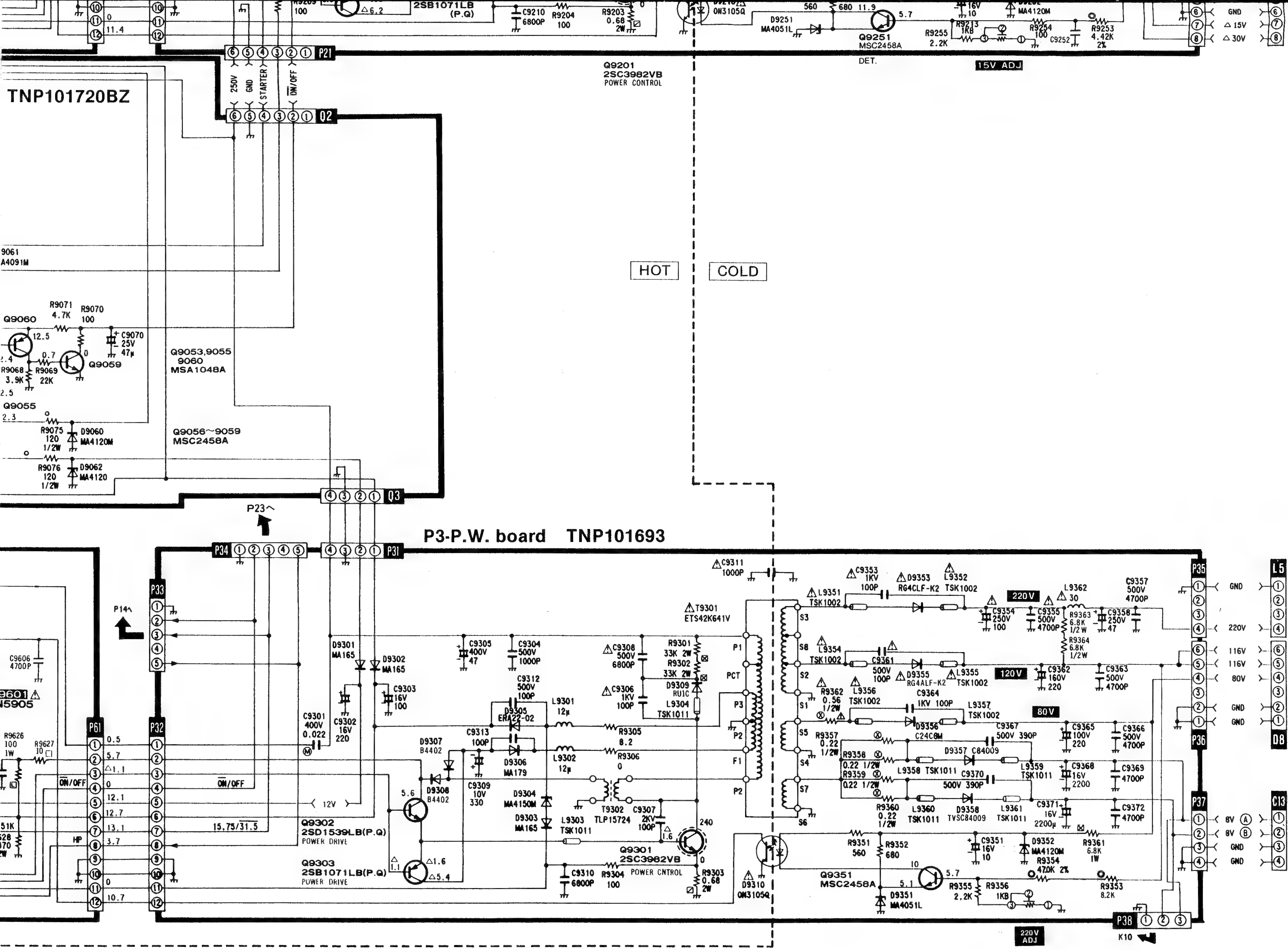
D26 ① ② ③ EARTH H.PLUSE
P13 ① ② ③
P41 P12
P14 ① ② ③ ④ ⑤ P11
P33へ

C9111 1000P
R9107 8.2K
C9105 400V 47
C9104 500V 1000P
C9112 500V 100P
C9106 500V 6800P
C9106 1KV 100P
R9101 33K 2W
R9102 33K 2W
D9109 RU1C
L9104 TSK1011
C9103 16V 100
C9102 16V 220
C9101 400V 0.022
D9105 MA179
C9113 100P
D9106 MA179
L9101 12μ
R9105 4.7
L9102 12μ
R9106 3.9
D9107 B4402
D9108 B4402
C9109 10V 330
D9104 MA4150M
D9103 MA165
L9103 TSK1011
T9102 TLP15724
C9107 2KV 100P
Q9102 2SD1539LB (P.O)
POWER DRIVE
Q9101 2SC3982VB
POWER CONTROL
C9110 6800P
R9104 100
R9103 0.68 2W
Q9103 2SB1071LB(P.O)
POWER DRIVE
D9101 MA165
D9102 MA165
T9101 ETS42K278V
D9110 ON3105Q
P1 P2 PCT F1 F2 P3 S1 S2 S3 S4 S5 SCT
C9153 1KV 100P
C9154 1KV 100P
D9152 RG4K2
D9153 RG4K2
L9151 TSK1011
L9152 TSK1011
L9153 TSK1011
L9154 TSK1011
C9155 180V 470μ
C9156 500V 4700P
125V
C9157 500V 100P
R9156 10
D9154 MA162
C9158 25V 100μ
R9157 100
D9155 MA4120M
C9159 1KV 100P
170V
L9155 TSK1002
D9156 RU1C
C9160 350V 10
R9158 100K 1/2W
R9159 560K 1/2W
12V
R9151 560
R9152 880
C9151 16V 10
11.2
5.1
D9151 MA4051L
Q9151 MSC2458A
R9155 2.2K
R9154 12K
C9152
R9153 47.0K 1%
R9110 1KB
125V ADJ
P15 125V GND E6
P16 GND △170V B9
ON/OFF 12V HP
P41 0.5 5.1 △0.9 0.2 11.9 12.6 13 3.7 0 9.2
P12

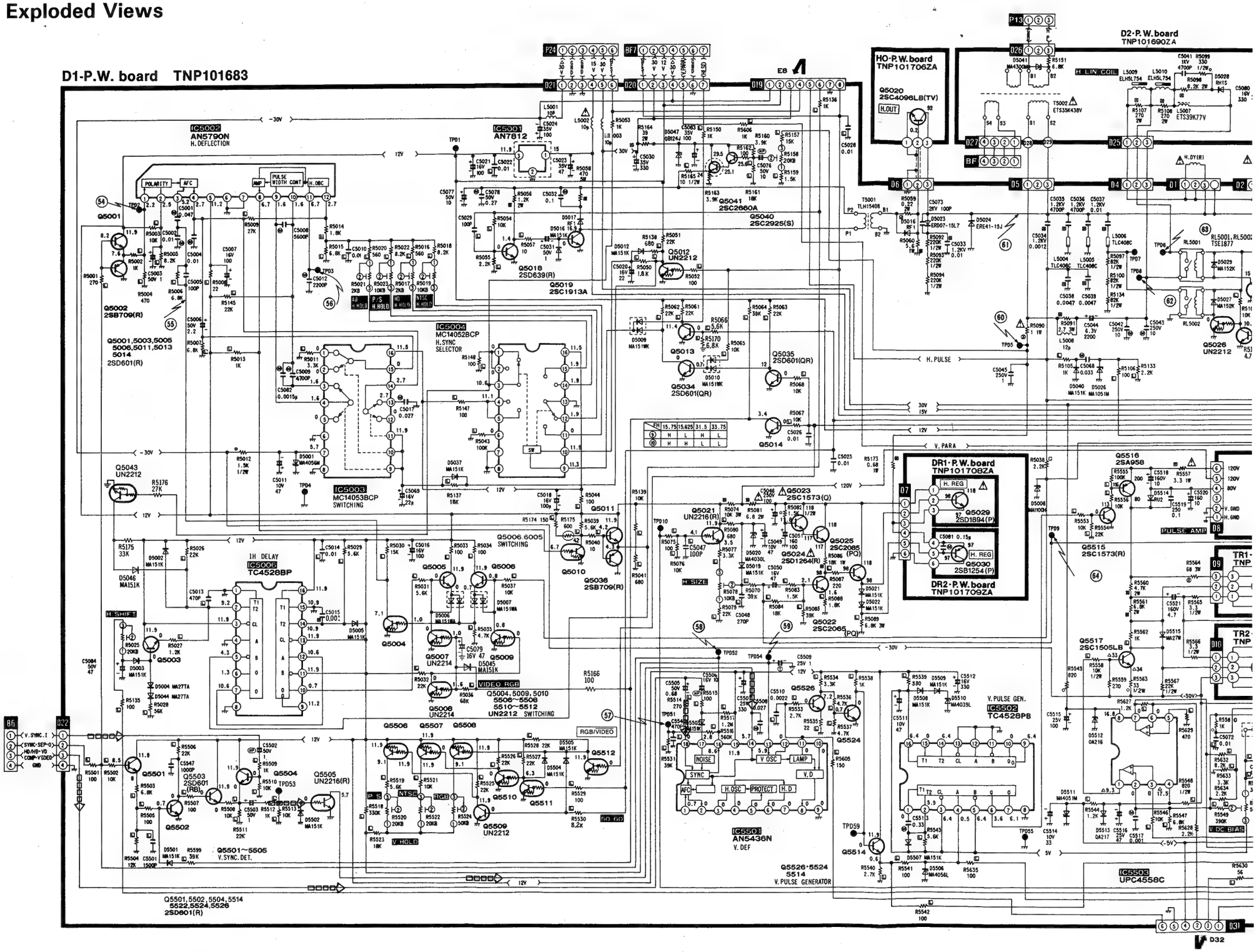
P2-P.W. board TNP101692

D21 ① ② ③ ④ ⑤ ⑥ 30V GND GND 15V 30V 15.75/31.5
P28 ① P24 ① ② ③ ④ ⑤ ⑥
P23 ① ② ③ ④ ⑤ ON/OFF 15.75/31.5
P34へ
P51 0.5 5.6 △1.0 0.2 12.5 13.1 13.1 3.7 0 11.4
P22
P21 ⑥ ⑤ ④ ③ ② ① 250V GND STARTER ON/OFF
Q2 ⑥ ⑤ ④ ③ ② ①
TNP101720BZ

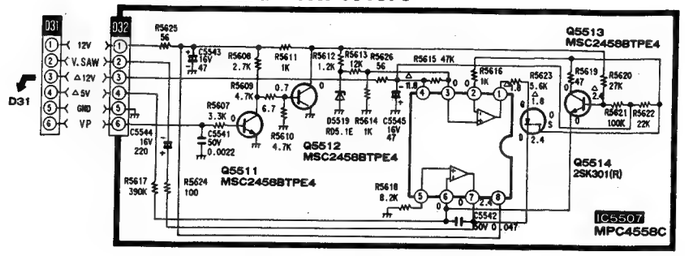
C9211 1000P
Q9252 UN1212
R9257 820
D9211 ON3105
T9201 ETS42K640V
Q9201 2SC3982VB
R9207 R9208 10K 6.8K
D9212 MA4052M
Q9204 UN1212
C9205 400V 47
C9204 500V 1000P
C9212 500V 100P
C9208 1000V 0.01
C9206 1KV 100P
R9201 33K 3W
R9202 33K 3W
D9209 C2406M
D9213 C2406M
L9204 TSK1011
C9203 16V 100
C9202 16V 220
C9201 400V 0.022
D9205 MA179
C9213 100P
D9206 MA179
L9201 12
R9205 8.2
L9202 12
R9206 8.2
D9207 B4402
D9208 B4402
C9209 10V 330
D9204 MA4150M
D9203 MA165
L9203 TSK1011
T9202 TLP15724
C9207 2KV 100P
Q9202 2SD1539LB (P.O)
POWER DRIVE
Q9203 2SB1071LB (P.Q)
D9201 MA165
R9209 100
C9210 6800P
R9204 100
R9203 0.68 2W
D9210 ON3105Q
P1 P2 PCT F1 F2 F3 S1 S2 S3 S4 S5 S6 S7 S8
R9264 0.47 1W
L9251 TSK1011
D9253 MA649
L9252 TSK1011
15V A
C9253 1000P
L9253 30
R9258 0.47 1W
C9254 500V 100P
D9254 RG4YK2
C9255 25V 3300
C9256 4700P
C9257 25V 1000
C9258 4700P
15V B
R9259 0.47 2W
L9254 TSK1011
L9255 TSK1011
C9260 25V 3300
C9261 4700P
L9256 TSK1011
C9259 30V 100P
D9255 MA649RL
10V
R9260 0.47 1W
C9266 500V 100P
D9256 RG4YK2
L9257 TSK1011
C9264 16V 3300
C9265 4700P
15V
R9261 0.33 1W
L9258 TSK1011
C9269 500V 100P
L9259 TSK1011
C9267 25V 2200
C9268 4700P
30V
R9262 0.47 2W
L9260 TSK1011
L9261 TSK1011
C9270 35V 3300
C9271 4700P
C9274 500V 100P
D9257 MA649RL
30V
R9263 0.33 1W
L9263 TSK1011
D9258 R64K2
L9264 TSK1011
C9275 35V 2200
C9276 4700P
R9256 820 1/2W
R9251 560
R9252 680 11.9
C9251 16V 10
D9252 MA4120M
D9251 MA4051L
Q9251 MSC2458A
DET.
R9255 2.2K
R9213 1KB
R9254 100
C9252
R9253 4.42K 2%
15V ADJ
P25 30V 15V GND GND GND △15V △30V B10
P26 10V GND L4
PP 15V GND DD
P27 30V 15V 10V GND GND GND △15V △30V C1


TNP101720BZ
P3-P.W. board TNP101693
HOT
COLD
P21
Q2
Q3
P23
P34
P31
P33
P14
P61
P32
P35
P36
P37
P38
L5
D8
C13
K10
250V
GND
STARTER
ON/OFF
Q9201
2SC3982VB
POWER CONTROL
Q9251
MSC2458A
DET.
15V ADJ
Q9053,9055
9060
MSA1048A
Q9056~9059
MSC2458A
T9301
ETS42K641V
Q9302
2SD1539LB(P.Q)
POWER DRIVE
Q9303
2SB1071LB(P.Q)
POWER DRIVE
Q9301
2SC3982VB
POWER CNTROL
T9302
TLP15724
D9310
ON3105Q
Q9351
MSC2458A
220V
120V
80V
220V ADJ
GND
116V
8V (A)
8V (B)
15.75/31.5
12V
HP

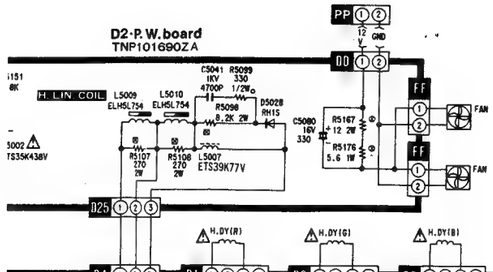
Exploded Views

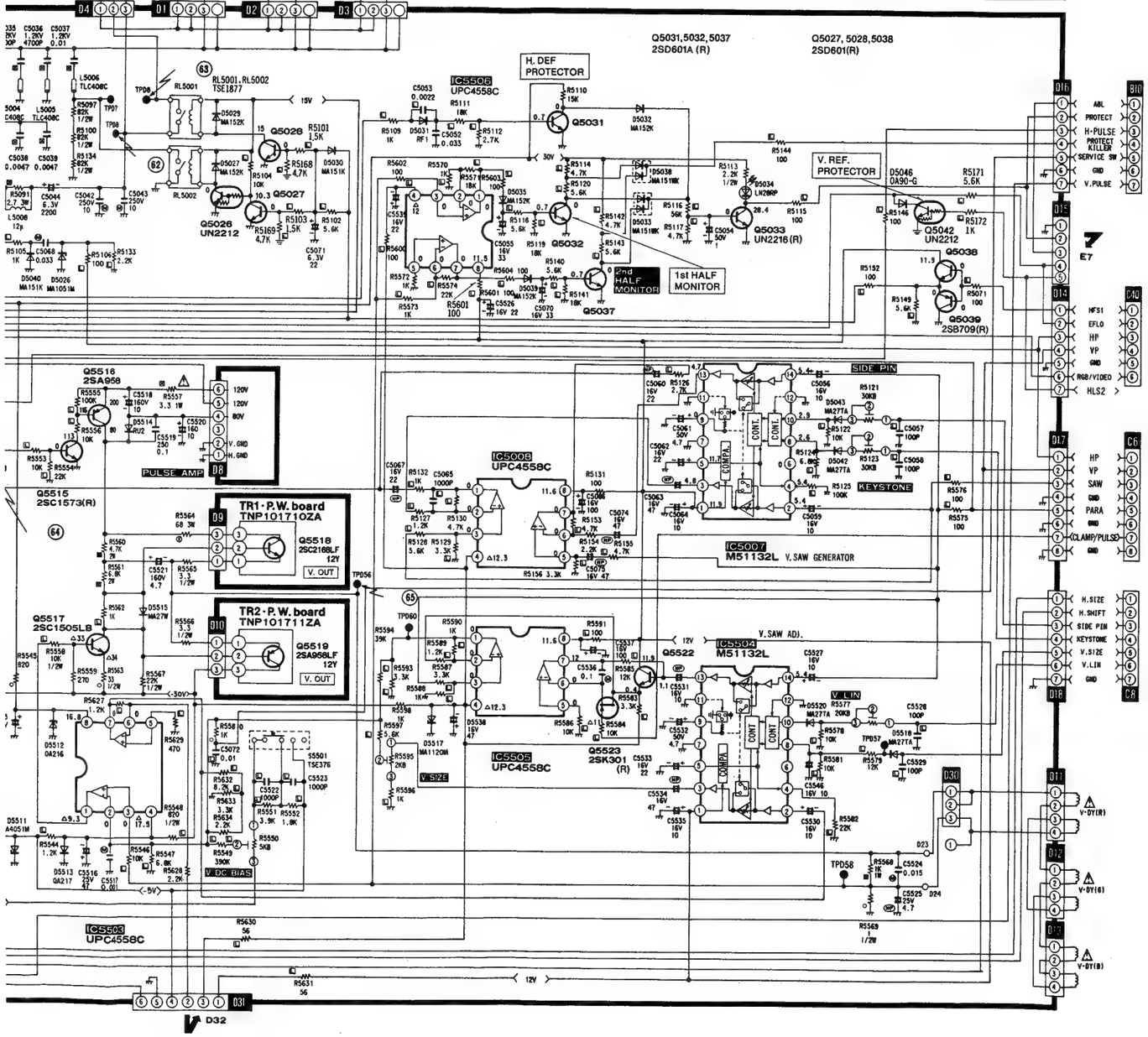


D3-P.W. board TNP101878

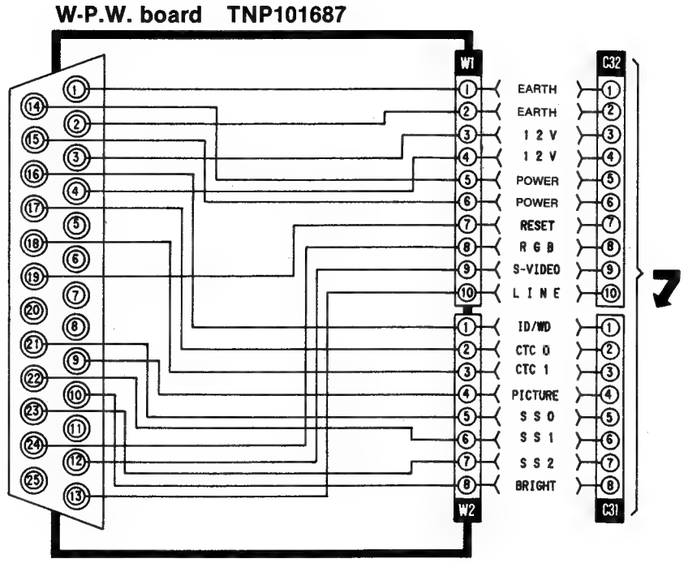


D2-P.W.board
TNP101690ZA

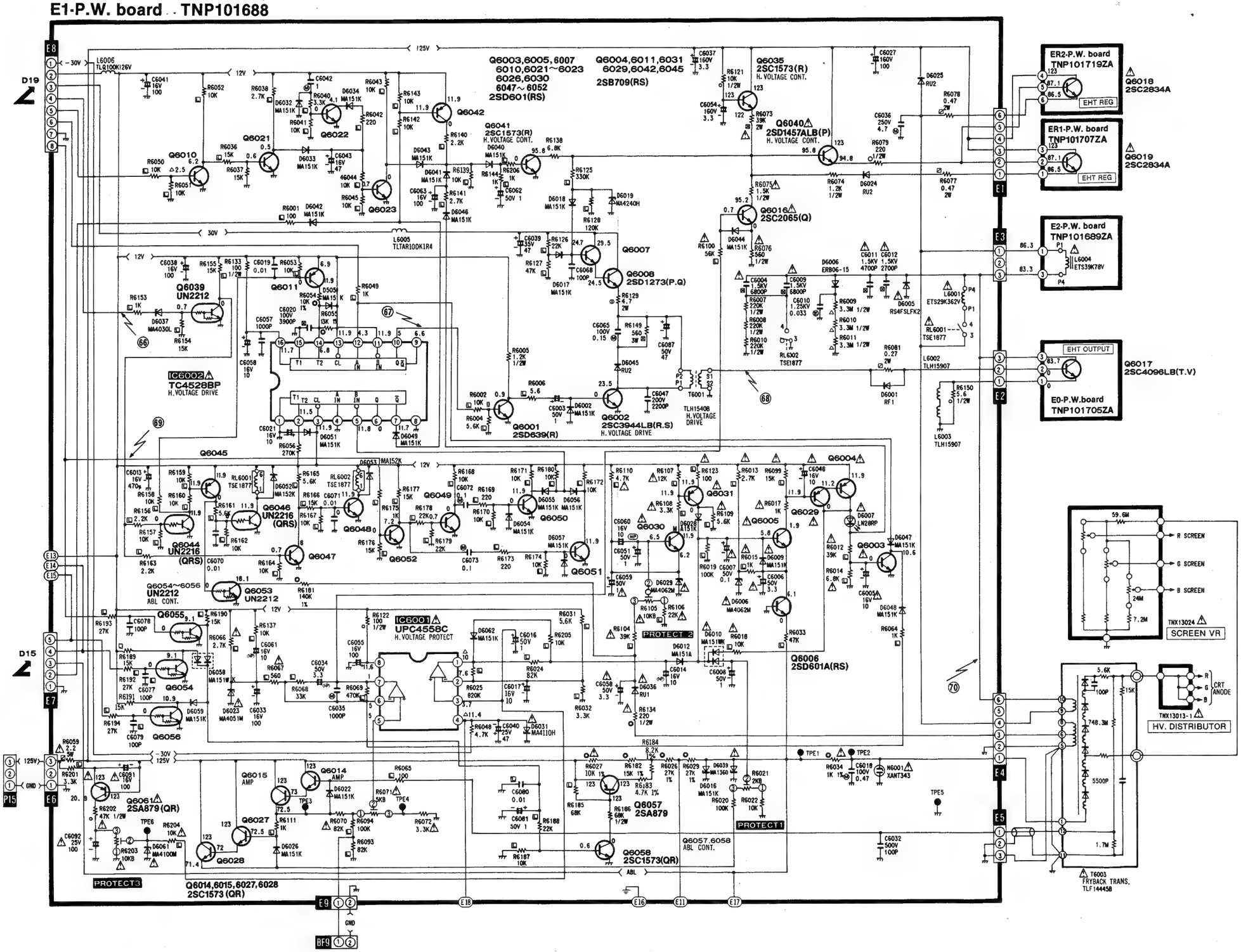


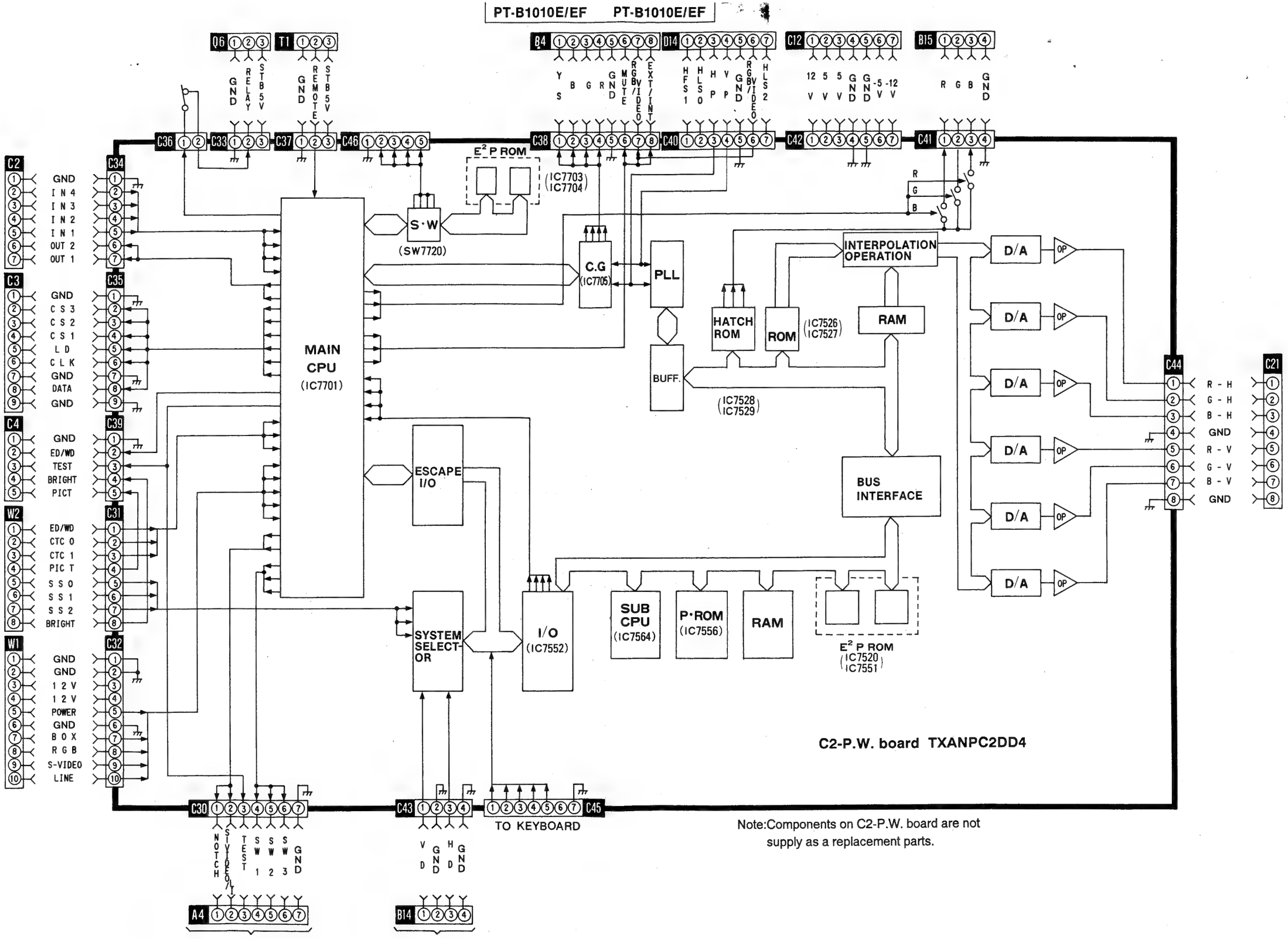


W-P.W. board TNP101687



E1-P.W. board . . TNP101688

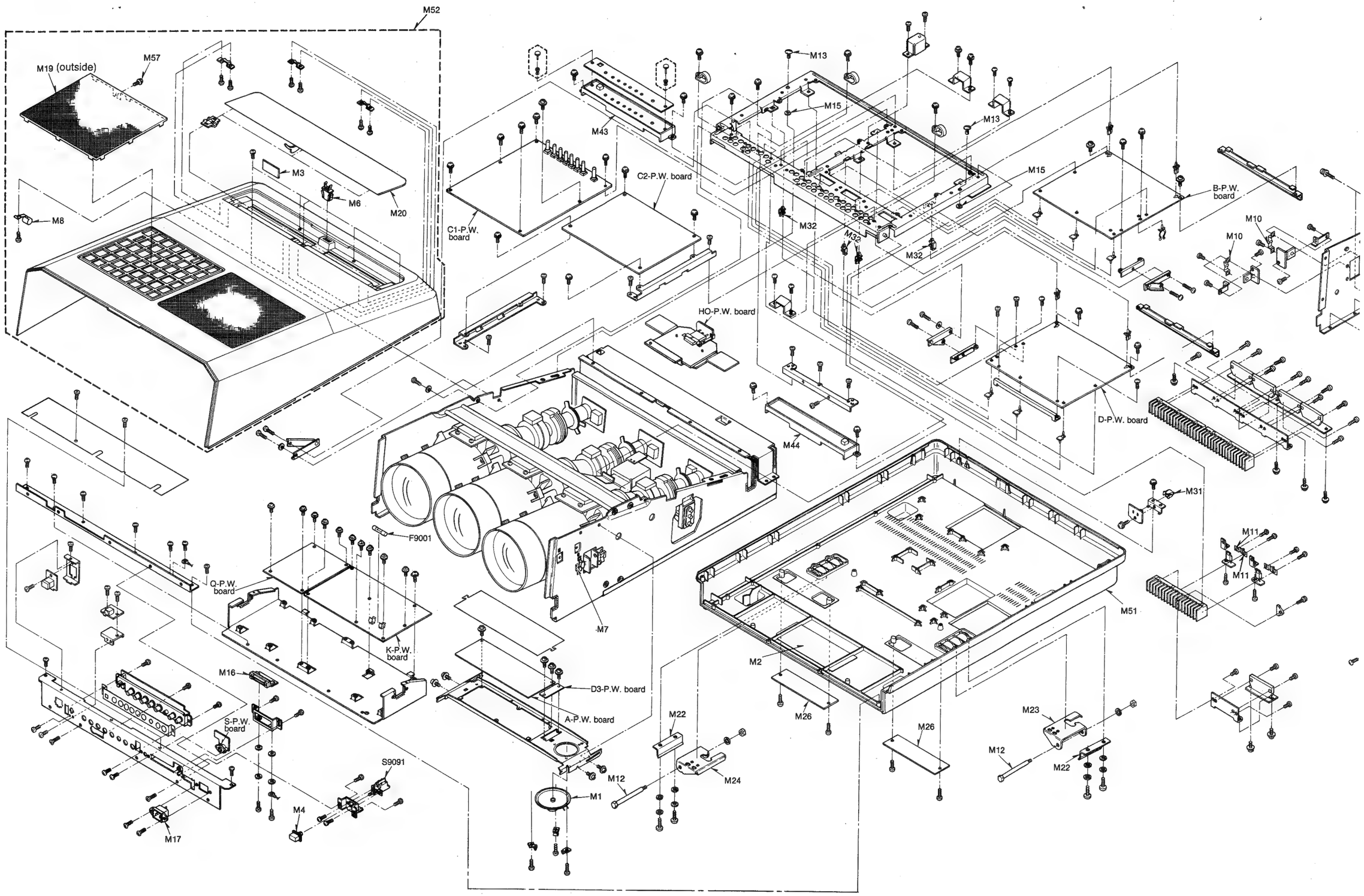


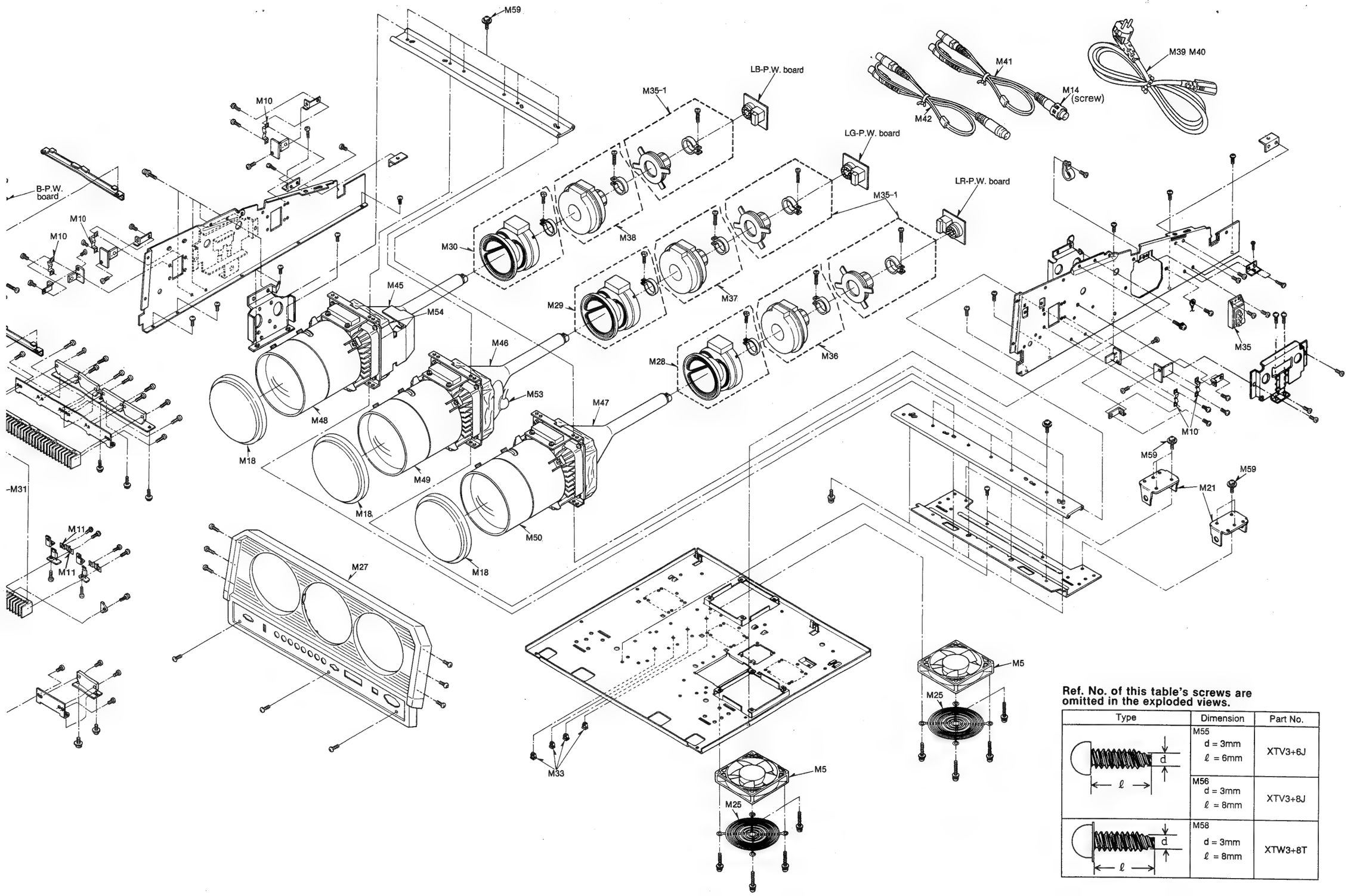


C2-P.W. board TXANPC2DD4

Note:Components on C2-P.W. board are not supply as a replacement parts.

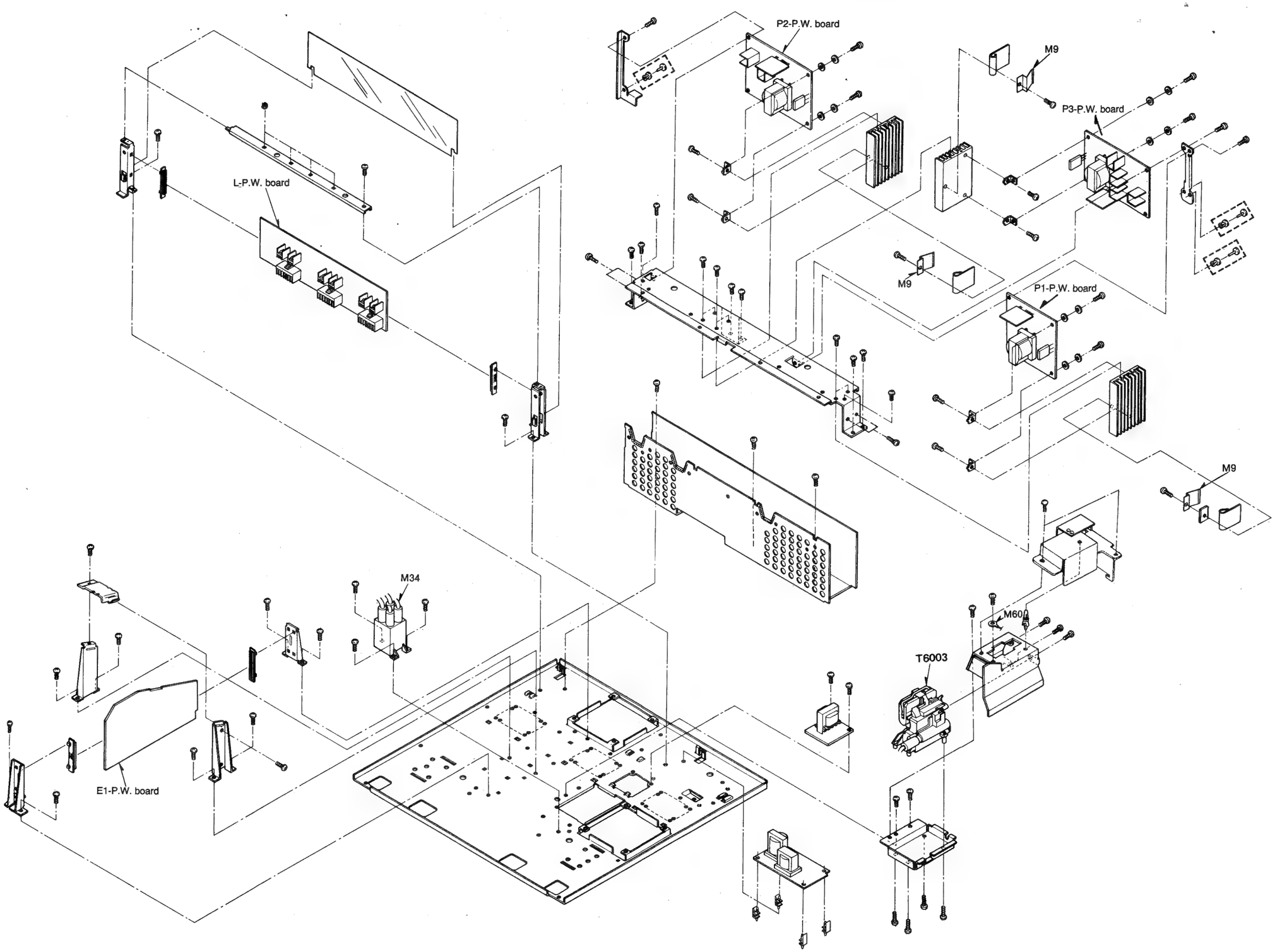
Exploded Views





Ref. No. of this table's screws are omitted in the exploded views.

Type	Dimension	Part No.
	M55 d = 3mm ℓ = 6mm	XTV3+6J
	M56 d = 3mm ℓ = 8mm	XTV3+8J
	M58 d = 3mm ℓ = 8mm	XTW3+8T



Compo
When r

Abbrevia

1. Re

Example:
ERD

C :
F :
M :

S :
W :

Note: For
Prir
dis

	Ref.No.	Pa
		RESI
	R1001	ERD25
	R1002	ERD25
	R1111	ERDS
	R1112	ERDS
	R1113	ERDS
	R1115	ERDS
	R1121	ERDS
	R1122	ERDS
	R1123	ERDS
	R1198	ERDS
	R1199	ERDS
	R1200	ERDS
	R1201	ERDS
	R1202	ERDS
	R1203	ERDS
	R1204	ERDS
	R1205	ERDS
	R1206	ERDS
	R1207	ERDS
	R1208	ERDS
	R1209	ERDS
	R1210	ERDS
	R1211	ERQ3
	R1212	ERDS
	R2001	ERDS
	R2002	ERD2
	R2003	ERD2
	R2004	ERDS
	R2005	ERD2
	R2006	ERD2
	R2007	ERD2
	R2008	ERG5
	R2009	ERG5

REPLACEMENT PARTS LIST

Important Safety Notice

Components identified by the International symbol ⚠ have special characteristics important for safety.
When replacing any of these components use only manufacture's specified Parts.

Abbreviation of Part Name and Description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W
TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide Metal Film	J : ±5%
S : Solid	K : ±10%
W : Wire Wound	M : ±20%

2. Capacitor

Example:

ECKF1H103ZF C 0.01PF, Z, 50V
TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Ceramic	C : ±0.25 pF
E : Electrolytic	D : ±0.5 pF
P : Polyester	F : ±1 pF
PP : Polypropylene	J : ±5%
S : Styrol	K : ±10%
T : Tantalum	L : ±15%
	M : ±20%
	P : ±100%,–0%
	Z : ±80%,–20%

Note: For G ○○ of Ref. No., not indicate illustration of it part on "Exploded Views".
Printed circuit board assembly with mark (NLA) is no longer available after production discontinuation of the complete set.

Ref.No.	Part No.	Description
	RESISTORS	
R1001	ERD25TLJ1R8	C 1.8OHM, J,1/4W
R1002	ERD25TLJ1R8	C 1.8OHM, J,1/4W
R1111	ERDS2TJ102	C 1KOHM, J,1/4W
R1112	ERDS2TJ103	C 10KOHM, J,1/4W
R1113	ERDS2TJ101	C 100OHM, J,1/4W
R1115	ERDS2TJ470	C 47OHM, J,1/4W
R1121	ERDS2TJ331	C 330OHM, J,1/4W
R1122	ERDS2TJ103	C 10KOHM, J,1/4W
R1123	ERDS2TJ470	C 47OHM, J,1/4W
R1198	ERDS2TJ101	C 100OHM, J,1/4W
R1199	ERDS2TJ124	C 120KOHM, J,1/4W
R1200	ERDS2TJ154	C 150KOHM, J,1/4W
R1201	ERDS2TJ124	C 120KOHM, J,1/4W
R1202	ERDS2TJ182	C 1.8KOHM, J,1/4W
R1203	ERDS2TJ102	C 1KOHM, J,1/4W
R1204	ERDS2TJ392	C 3.9KOHM, J,1/4W
R1205	ERDS2TJ103	C 10KOHM, J,1/4W
R1206	ERDS1FJ221	C 220OHM, J,1/2W
R1207	ERDS2TJ151	C 150OHM, J,1/4W
R1208	ERDS2TJ682	C 6.8KOHM, J,1/4W
R1209	ERDS2TJ103	C 10KOHM, J,1/4W
R1210	ERDS2TJ4R7	C 4.7OHM, J,1/4W
R1211	ERQ3CJ150	F 15OHM, J, 3W
R1212	ERDS2TJ271	C 270OHM, J,1/4W
R2001	ERDS1TJ221	C 220OHM, J,1/2W
R2002	ERD25TJ220	C 22OHM, J,1/4W
R2003	ERD25TJ221	C 220OHM, J,1/4W
R2004	ERDS1TJ101	C 100OHM, J,1/2W
R2005	ERD25TJ330	C 33OHM, J,1/4W
R2006	ERD25TJ100	C 10OHM, J,1/4W
R2007	ERD25TJ182	C 1.8KOHM, J,1/4W
R2008	ERG5SJ561H	M 560OHM, J, 5W
R2009	ERG5SJ561H	M 560OHM, J, 5W
R2010	ERG5SJ561H	M 560OHM, J, 5W
R2011	ERG5SJ561H	M 560OHM, J, 5W
R2012	ERQ12HJ101	F 100OHM, J,1/2W
R2013	ERD25TJ330	C 33OHM, J,1/4W
R2014	ERD25TJ330	C 33OHM, J,1/4W
R2015	ERDS1FJ151	C 150OHM, J,1/2W
R2016	ERG3SJ180	M 18OHM, J, 3W
R2018	ERDS1TJ820	C 82OHM, J,1/2W
R2019	ERDS1TJ473	C 47KOHM, J,1/2W
R2020	ERG3SJ470H	M 47OHM, J, 3W
R2021	ERG1SJ102P	M 1KOHM, J, 1W
R2022	ERD25TJ821	C 820OHM, J,1/4W
R2023	ERD25TJ391	C 390OHM, J,1/4W
R2101	ERDS1TJ221	C 220OHM, J,1/2W
R2102	ERD25TJ220	C 22OHM, J,1/4W
R2103	ERD25TJ221	C 220OHM, J,1/4W
R2104	ERDS1TJ101	C 100OHM, J,1/2W
R2105	ERD25TJ330	C 33OHM, J,1/4W
R2106	ERD25TJ100	C 10OHM, J,1/4W
R2107	ERD25TJ182	C 1.8KOHM, J,1/4W
R2108	ERG5SJ561H	M 560OHM, J, 5W
R2109	ERG5SJ561H	M 560OHM, J, 5W
R2110	ERG5SJ561H	M 560OHM, J, 5W
R2111	ERG5SJ561H	M 560OHM, J, 5W
R2112	ERQ12HJ101	F 100OHM, J,1/2W
R2113	ERD25TJ330	C 33OHM, J,1/4W
R2114	ERD25TJ330	C 33OHM, J,1/4W
R2115	ERDS1FJ151	C 150OHM, J,1/2W
R2116	ERG3SJ180	M 18OHM, J, 3W
R2118	ERDS1TJ820	C 82OHM, J,1/2W
R2119	ERDS1TJ473	C 47KOHM, J,1/2W
R2120	ERG3SJ470H	M 47OHM, J, 3W
R2122	ERD25TJ821	C 820OHM, J,1/4W
R2123	ERD25TJ391	C 390OHM, J,1/4W
R2201	ERDS1TJ221	C 220OHM, J,1/2W
R2202	ERD25TJ220	C 22OHM, J,1/4W
R2203	ERD25TJ221	C 220OHM, J,1/4W
R2204	ERDS1TJ101	C 100OHM, J,1/2W
R2205	ERD25TJ330	C 33OHM, J,1/4W
R2206	ERD25TJ100	C 10OHM, J,1/4W
R2207	ERD25TJ182	C 1.8KOHM, J,1/4W
R2208	ERG5SJ561H	M 560OHM, J, 5W
R2209	ERG5SJ561H	M 560OHM, J, 5W
R2210	ERG5SJ561H	M 560OHM, J, 5W
R2211	ERG5SJ561H	M 560OHM, J, 5W
R2212	ERQ12HJ101	F 100OHM, J,1/2W
R2213	ERD25TJ330	C 33OHM, J,1/4W
R2214	ERD25TJ330	C 33OHM, J,1/4W
R2215	ERDS1FJ151	C 150OHM, J,1/2W
R2216	ERG3SJ180	M 18OHM, J, 3W
R2218	ERDS1TJ820	C 82OHM, J,1/2W
R2219	ERDS1TJ473	C 47KOHM, J,1/2W
R2220	ERG3SJ470H	M 47OHM, J, 3W
R2222	ERD25TJ821	C 820OHM, J,1/4W
R2223	ERD25TJ391	C 390OHM, J,1/4W
R3001	ERD25TJ750	C 75OHM, J,1/4W
R3301	ERD25TJ750	C 75OHM, J,1/4W
R3302	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R3303	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3304	ERJ8GCYJ820	M 82OHM, J,1/8W
R3305	ERD25TJ681	C 680OHM, J,1/4W
R3306	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3307	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3308	ERJ8GCYJ331	M 330OHM, J,1/8W
R3309	ERJ8GCYJ563	M 56KOHM, J,1/8W
R3310	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R3311	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R3312	ERJ8GCYJ101	M 100OHM, J,1/8W
R3313	ERJ8GCYJ331	M 330OHM, J,1/8W
R3314	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R3315	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R3316	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R3317	ERJ8GCYJ330	M 33OHM, J,1/8W
R3318	ERJ8GCYJ331	M 330OHM, J,1/8W
R3319	ERJ8GCYJ271	M 270OHM, J,1/8W
R3320	ERJ8GCYJ151	M 150OHM, J,1/8W
R3321	ERJ8GCYJ271	M 270OHM, J,1/8W
R3322	ERJ8GCYJ561	M 560OHM, J,1/8W
R3323	ERJ8GCYJ561	M 560OHM, J,1/8W
R3324	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3326	ERJ8GCYJ101	M 100OHM, J,1/8W
R3327	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3328	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R3329	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3330	ERJ8GCYJ823	M 82KOHM, J,1/8W
R3331	ERJ8GCYJ471	M 470OHM, J,1/8W
R3332	ERJ8GCYJ330	M 33OHM, J,1/8W
R3333	ERJ8GCYJ221	M 220OHM, J,1/8W
R3334	EVND4AA00B32	CONTROL 3000HMB
R3335	ERD25TJ561	C 560OHM, J,1/4W
R3336	ERD25TJ331	C 330OHM, J,1/4W
R3337	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3338	ERD25TJ681	C 680OHM, J,1/4W
R3339	ERDS1TJ152	C 1.5KOHM, J,1/2W
R3340	ERJ8GCYJ330	M 33OHM, J,1/8W
R3341	ERG1SJ101P	M 100OHM, J, 1W
R3342	ERJ8GCYK5R6	M 5.6OHM, K,1/8W
R3343	ERJ8GCYJ101	M 100OHM, J,1/8W
R3344	ERJ8GCYJ271	M 270OHM, J,1/8W
R3345	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R3346	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R3347	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R3348	ERJ8GCYJ271	M 270OHM, J,1/8W
R3349	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3350	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3351	ERD25TJ750	C 75OHM, J,1/4W
R3352	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R3353	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3354	ERJ8GCYJ820	M 82OHM, J,1/8W
R3355	ERD25TJ681	C 680OHM, J,1/4W
R3356	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3357	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3358	ERJ8GCYJ331	M 330OHM, J,1/8W
R3359	ERJ8GCYJ563	M 56KOHM, J,1/8W
R3360	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R3362	ERJ8GCYJ101	M 100OHM, J,1/8W
R3363	ERJ8GCYJ331	M 330OHM, J,1/8W
R3365	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R3366	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R3367	ERJ8GCYJ330	M 33OHM, J,1/8W
R3368	ERJ8GCYJ331	M 330OHM, J,1/8W
R3369	ERJ8GCYJ271	M 270OHM, J,1/8W
R3370	ERJ8GCYJ151	M 150OHM, J,1/8W
R3371	ERJ8GCYJ271	M 270OHM, J,1/8W
R3372	ERJ8GCYJ561	M 560OHM, J,1/8W
R3373	ERJ8GCYJ561	M 560OHM, J,1/8W
R3374	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3375	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3376	ERJ8GCYJ101	M 100OHM, J,1/8W
R3377	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3378	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R3379	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3380	ERJ8GCYJ823	M 82KOHM, J,1/8W
R3381	ERJ8GCYJ471	M 470OHM, J,1/8W
R3382	ERJ8GCYJ330	M 33OHM, J,1/8W
R3383	ERJ8GCYJ221	M 220OHM, J,1/8W
R3384	EVND4AA00B32	CONTROL 3000HMB
R3385	ERD25TJ561	C 560OHM, J,1/4W
R3386	ERD25TJ331	C 330OHM, J,1/4W
R3387	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3388	ERD25TJ821	C 820OHM, J,1/4W
R3389	ERDS1TJ152	C 1.5KOHM, J,1/2W
R3390	ERJ8GCYJ330	M 33OHM, J,1/8W
R3391	ERG1SJ101P	M 100OHM, J, 1W
R3392	ERJ8GCYK5R6	M 5.6OHM, K,1/8W
R3393	ERJ8GCYJ101	M 100OHM, J,1/8W
R3394	ERJ8GCYJ271	M 270OHM, J,1/8W
R3396	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R3397	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R3398	ERJ8GCYJ271	M 270OHM, J,1/8W
R3399	ERJ8GCYJ102	M 1KOHM, J,1/8W

Ref.No.	Part No.	Description
R3400	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3401	ERD25TJ750	C 75OHM, J,1/4W
R3402	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R3403	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3404	ERJ8GCYJ820	M 82OHM, J,1/8W
R3405	ERD25TJ681	C 680OHM, J,1/4W
R3406	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3407	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3408	ERJ8GCYJ331	M 330OHM, J,1/8W
R3409	ERJ8GCYJ563	M 56KOHM, J,1/8W
R3410	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R3412	ERJ8GCYJ101	M 100OHM, J,1/8W
R3413	ERJ8GCYJ331	M 330OHM, J,1/8W
R3415	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R3416	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R3417	ERJ8GCYJ330	M 33OHM, J,1/8W
R3418	ERJ8GCYJ331	M 330OHM, J,1/8W
R3419	ERJ8GCYJ271	M 270OHM, J,1/8W
R3420	ERJ8GCYJ151	M 150OHM, J,1/8W
R3421	ERJ8GCYJ271	M 270OHM, J,1/8W
R3422	ERJ8GCYJ561	M 560OHM, J,1/8W
R3423	ERJ8GCYJ561	M 560OHM, J,1/8W
R3424	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3426	ERJ8GCYJ101	M 100OHM, J,1/8W
R3427	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3428	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R3429	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3430	ERJ8GCYJ823	M 82KOHM, J,1/8W
R3431	ERJ8GCYJ471	M 470OHM, J,1/8W
R3432	ERJ8GCYJ330	M 33OHM, J,1/8W
R3433	ERJ8GCYJ221	M 220OHM, J,1/8W
R3434	EVND4AA00B32	CONTROL 3000HMB
R3435	ERD25TJ681	C 680OHM, J,1/4W
R3436	ERD25TJ331	C 330OHM, J,1/4W
R3437	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3438	ERD25TJ821	C 820OHM, J,1/4W
R3439	ERDS1TJ152	C 1.5KOHM, J,1/2W
R3440	ERJ8GCYJ330	M 33OHM, J,1/8W
R3441	ERG1SJ101P	M 100OHM, J, 1W
R3442	ERJ8GCYK5R6	M 5.6OHM, K,1/8W
R3443	ERJ8GCYJ101	M 100OHM, J,1/8W
R3444	ERJ8GCYJ271	M 270OHM, J,1/8W
R3445	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R3446	ERJ8GCYJ271	M 270OHM, J,1/8W
R3449	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3450	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3451	ERJ8GCYJ333	M 33KOHM, J,1/8W
R3452	ERJ8GCYJ331	M 330OHM, J,1/8W
R3453	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R3454	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3455	ERJ8GCYJ153	M 15KOHM, J,1/8W
R3456	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3457	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3458	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R3459	EVND4AA00B14	CONTROL 10KOHMB
R3460	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R3461	EVND4AA00B14	CONTROL 10KOHMB
R3462	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R3463	ERJ8GCYJ153	M 15KOHM, J,1/8W
R3464	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R3465	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R3466	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R3467	ERJ8GCYJ101	M 100OHM, J,1/8W
R3468	ERJ8GCYJ153	M 15KOHM, J,1/8W
R3469	EVND4AA00B54	CONTROL 50KOHMB
R3470	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R3471	ERJ8GCYJ184	M 180KOHM, J,1/8W
R3472	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R3473	ERJ8GCYJ333	M 33KOHM, J,1/8W
R3474	ERJ8GCYJ563	M 56KOHM, J,1/8W
R3475	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R3486	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3487	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3488	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3489	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3490	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3491	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3492	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3493	EVND4AA00B14	CONTROL 10KOHMB
R3494	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3495	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R3496	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3497	ERJ8GCYJ821	M 820OHM, J,1/8W
R3501	ERJ8GCYJ221	M 220OHM, J,1/8W
R3502	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R3503	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3504	ERJ8GCYJ101	M 100OHM, J,1/8W
R3505	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3506	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3507	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R3508	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R3509	ERJ8GCYJ563	M 56KOHM, J,1/8W
R3510	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3511	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3512	EVND4AA00B13	CONTROL 1KOHMB
R3513	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3514	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R3515	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3516	ERJ8GCYJ563	M 56KOHM, J,1/8W
R3517	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3518	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R3519	EVND4AA00B54	CONTROL 50KOHMB
R3520	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3521	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3522	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3523	ERJ8GCYJ123	M 12KOHM, J,1/8W
R3524	ERJ8GCYJ563	M 56KOHM, J,1/8W
R3525	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3526	EVND4AA00B13	CONTROL 1KOHMB
R3527	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3528	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R3529	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3530	ERJ8GCYJ563	M 56KOHM, J,1/8W
R3531	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3532	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R3533	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3534	EVND4AA00B54	CONTROL 50KOHMB
R3535	ERJ8GCYJ102	M 1KOHM, J,1/8W

Ref.No.	Part No.	Description
R3536	ERJ8GCYJ563	M 56KOHM, J,1/8W
R3537	ERJ8GCYJ223	M 22KOHM, J,1/8W
R3538	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3539	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3540	ERJ8GCYJ101	M 100OHM, J,1/8W
R3541	ERJ8GCYJ564	M 560KOHM, J,1/8W
R3542	ERJ8GCYJ101	M 100OHM, J,1/8W
R3543	ERJ8GCYJ101	M 100OHM, J,1/8W
R3544	ERJ8GCYJ101	M 100OHM, J,1/8W
R3545	ERJ8GCYJ101	M 100OHM, J,1/8W
R3551	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R3552	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3553	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3554	ERD25FJ750	C 75OHM, J,1/4W
R3555	ERD25FJ750	C 75OHM, J,1/4W
R3558	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3560	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R3561	ERJ8GCYJ124	M 120KOHM, J,1/8W
R3562	ERJ8GCYJ104	M 100KOHM, J,1/8W
R3564	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R3565	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R3567	ERJ8GCYJ153	M 15KOHM, J,1/8W
R3568	ERJ8GCYJ153	M 15KOHM, J,1/8W
R3569	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R3570	ERJ8GCYJ101	M 100OHM, J,1/8W
R3571	EVN38CA00B15	CONTROL 100KOHMB
R3572	ERJ8GCYJ563	M 56KOHM, J,1/8W
R3573	EVN38CA00B54	CONTROL 50KOHMB
R3574	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R3575	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R3577	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R3578	ERJ8GCYJ154	M 150KOHM, J,1/8W
R3579	ERJ8GCYJ683	M 68KOHM, J,1/8W
R3580	EVN38CA00B54	CONTROL 50KOHMB
R3581	ERJ8GCYJ394	M 390KOHM, J,1/8W
R3582	EVN38CA00B55	CONTROL 500KOHMB
R3583	EVN38CA00B15	CONTROL 100KOHMB
R3584	ERJ8GCYJ563	M 56KOHM, J,1/8W
R3586	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R3587	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3588	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R3589	ERJ8GCYJ393	M 39KOHM, J,1/8W
R3590	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3591	ERJ8GCYJ331	M 330OHM, J,1/8W
R3592	ERJ8GCYJ473	M 47KOHM, J,1/8W
R3593	ERJ8GCYJ473	M 47KOHM, J,1/8W
R3594	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R3595	ERJ8GCYJ101	M 100OHM, J,1/8W
R3596	ERJ8GCYJ101	M 100OHM, J,1/8W
R3597	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3599	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R3600	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R3601	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3602	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3603	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R3604	ERJ8GCYJ681	M 680OHM, J,1/8W
R3605	ERJ8GCYJ331	M 330OHM, J,1/8W
R3606	EVN38CA00B54	CONTROL 50KOHMB

Ref.No.	Part No.	Description
R3607	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3608	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3609	EVN38CA00B15	CONTROL 100KOHMB
R3610	EVN38CA00B54	CONTROL 50KOHMB
R3611	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R3612	ERJ8GCYJ393	M 39KOHM, J,1/8W
R3613	ERJ8GCYJ154	M 150KOHM, J,1/8W
R3614	EVN38CA00B55	CONTROL 500KOHMB
R3615	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R3616	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3617	EVN38CA00B54	CONTROL 50KOHMB
R3618	EVN38CA00B15	CONTROL 100KOHMB
R3619	EVN38CA00B54	CONTROL 50KOHMB
R3620	ERJ8GCYJ683	M 68KOHM, J,1/8W
R3621	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R3622	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3623	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3624	ERJ8GCYJ221	M 220OHM, J,1/8W
R3625	ERJ8GCYJ683	M 68KOHM, J,1/8W
R3626	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3627	ERJ8GCYJ153	M 15KOHM, J,1/8W
R3628	ERJ8GCYJ823	M 82KOHM, J,1/8W
R3629	ERJ8GCYJ221	M 220OHM, J,1/8W
R3630	ERJ8GCYJ681	M 680OHM, J,1/8W
R3631	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3632	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3633	ERJ8GCYJ103	M 10KOHM, J,1/8W
R3634	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R3635	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R3636	ERJ8GCYJ101	M 100OHM, J,1/8W
R3702	ERJ8GCYJ820	M 82OHM, J,1/8W
R3703	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R3704	EVND4AA00B13	CONTROL 1KOHMB
R3705	ERJ8GCYJ331	M 330OHM, J,1/8W
R3706	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R3707	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3708	ERJ8GCYJ471	M 470OHM, J,1/8W
R3711	ERJ8GCYJ561	M 560OHM, J,1/8W
R3761	ERJ8GCYJ561	M 560OHM, J,1/8W
R3802	ERJ8GCYJ101	M 100OHM, J,1/8W
R3803	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R3804	EVND4AA00B13	CONTROL 1KOHMB
R3805	ERJ8GCYJ331	M 330OHM, J,1/8W
R3806	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R3808	ERJ8GCYJ471	M 470OHM, J,1/8W
R3809	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R3810	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3811	ERJ8GCYJ561	M 560OHM, J,1/8W
R3812	ERJ8GCYJ101	M 100OHM, J,1/8W
R3813	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R3814	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3815	EVND4AA00B24	CONTROL 20KOHMB
R4002	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R4003	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R4004	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R4005	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4006	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4007	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R4008	ERJ8GCYJ102	M 1KOHM, J,1/8W

Ref.No.	Part No.	Description
R4009	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R4010	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4012	EVND4AA00B13	CONTROL 1KOHMB
R4013	ERJ8GCYJ101	M 100OHM, J,1/8W
R4014	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4015	ERDS1FJ121	C 120OHM, J,1/2W
R4016	ERJ8GCYJ821	M 820OHM, J,1/8W
R4017	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4018	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R4019	ERJ8GCYJ561	M 560OHM, J,1/8W
R4020	ERJ8GCYJ471	M 470OHM, J,1/8W
R4021	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4022	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R4023	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R4024	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4025	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4026	ERJ8GCYJ101	M 100OHM, J,1/8W
R4027	EVND4AA00B23	CONTROL 2KOHMB
R4028	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R4029	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R4030	ERJ8GCYJ751	M 750OHM, J,1/8W
R4031	ERJ8GCYJ751	M 750OHM, J,1/8W
R4032	ERJ8GCYJ271	M 270OHM, J,1/8W
R4033	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R4034	EVND4AA00B23	CONTROL 2KOHMB
R4035	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4036	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R4037	ERJ8GCYJ221	M 220OHM, J,1/8W
R4038	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4039	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4040	EVND4AA00B33	CONTROL 3KOHMB
R4041	ERJ8GCYJ181	M 180OHM, J,1/8W
R4042	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R4043	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4044	ERJ8GCYJ101	M 100OHM, J,1/8W
R4071	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R4072	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R4073	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R4074	ERJ8GCYJ101	M 100OHM, J,1/8W
R4075	ERJ8GCYJ221	M 220OHM, J,1/8W
R4101	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R4102	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4103	ERD25TJ750	C 75OHM, J,1/4W
R4104	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R4105	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4106	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4107	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4108	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4109	ERJ8GCYJ473	M 47KOHM, J,1/8W
R4110	ERJ8GCYJ473	M 47KOHM, J,1/8W
R4111	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R4112	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R4113	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R4115	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R4116	ERJ8GCYJ471	M 470OHM, J,1/8W
R4117	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4118	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4119	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4123	ERJ8GCYJ393	M 39KOHM, J,1/8W

Ref.No.	Part No.	Description
R4124	ERJ8GCYJ333	M 33KOHM, J,1/8W
R4125	ERJ8GCYJ101	M 100OHM, J,1/8W
R4126	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R4127	ERJ8GCYJ271	M 270OHM, J,1/8W
R4128	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R4129	ERJ8GCYJ223	M 22KOHM, J,1/8W
R4130	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R4131	ERJ8GCYJ101	M 100OHM, J,1/8W
R4132	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R4133	ERJ8GCYJ471	M 470OHM, J,1/8W
R4134	ERJ8GCYJ271	M 270OHM, J,1/8W
R4135	ERJ8GCYK225	M 2.2MOHM, K,1/8W
R4136	ERJ8GCYJ561	M 560OHM, J,1/8W
R4137	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R4138	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R4139	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4140	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4306	ERJ8GCYJ564	M 560KOHM, J,1/8W
R4307	ERJ8GCYJ474	M 470KOHM, J,1/8W
R4308	ERJ8GCYJ394	M 390KOHM, J,1/8W
R4309	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R4310	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R4311	ERJ8GCYJ104	M 100KOHM, J,1/8W
R4312	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R4313	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R4314	ERJ8GCYJ681	M 680OHM, J,1/8W
R4315	ERJ8GCYJ471	M 470OHM, J,1/8W
R4316	ERJ8GCYJ561	M 560OHM, J,1/8W
R4317	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4318	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R4319	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4401	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4402	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R4403	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4404	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4405	ERJ8GCYJ561	M 560OHM, J,1/8W
R4406	ERJ8GCYJ271	M 270OHM, J,1/8W
R4407	ERJ8GCYJ561	M 560OHM, J,1/8W
R4408	ERJ8GCYJ151	M 150OHM, J,1/8W
R4409	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4410	ERJ8GCYJ391	M 390OHM, J,1/8W
R4411	ERJ8GCYJ391	M 390OHM, J,1/8W
R4412	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4413	ERJ8GCYJ561	M 560OHM, J,1/8W
R4414	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4415	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4416	ERJ8GCYJ101	M 100OHM, J,1/8W
R4417	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4418	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4419	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R4420	ERJ8GCYJ821	M 820OHM, J,1/8W
R4421	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4423	ERJ8GCYJ471	M 470OHM, J,1/8W
R4424	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R4425	ERJ8GCYJ561	M 560OHM, J,1/8W
R4429	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R4430	ERJ8GCYJ203	M 20KOHM, J,1/8W
R4432	ERJ8GCYJ393	M 39KOHM, J,1/8W
R4433	ERJ8GCYJ123	M 12KOHM, J,1/8W

Ref.No.	Part No.	Description
R4434	ERJ8GCYJ681	M 680OHM, J,1/8W
R4435	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R4436	ERJ8GCYJ123	M 12KOHM, J,1/8W
R4437	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R4438	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4439	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R4440	ERJ8GCYJ471	M 470OHM, J,1/8W
R4441	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R4442	EVND4AA00B14	CONTROL 10KOHMB
R4444	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4447	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4450	ERJ8GCYJ471	M 470OHM, J,1/8W
R4452	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4454	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R4601	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R4602	ERJ8GCYJ221	M 220OHM, J,1/8W
R4603	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4604	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R4605	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4606	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R4607	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R4608	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R4609	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R4610	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R4611	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R4631	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R4641	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4642	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R4661	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R4662	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R4663	ERD25TJ750	C 75OHM, J,1/4W
R4701	ERJ8GCYJ223	M 22KOHM, J,1/8W
R4702	EVND4AA00B14	CONTROL 10KOHMB
R4709	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R4710	ERJ8GCYJ104	M 100KOHM, J,1/8W
R4712	ERJ8GCYJ123	M 12KOHM, J,1/8W
R4714	ERDS1TJ3R3	C 3.3OHM, J,1/2W
R4734	ERJ8GCY0R00	M 0OHM, J,1/8W
R4751	ER025CKF1962	M19.6KOHM, F,1/4W
R4752	ER025CKF2152	M21.5KOHM, F,1/4W
R4753	ER025CKF1002	M 10KOHM, F,1/4W
R4755	ERJ8GCYJ393	M 39KOHM, J,1/8W
R4756	ERJ8GCYJ151	M 150OHM, J,1/8W
R4757	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R4758	ERJ8GCYJ153	M 15KOHM, J,1/8W
R4759	ERJ8GCYJ224	M 220KOHM, J,1/8W
R4760	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R4761	ERJ8GCYJ511	M 510OHM, G,1/8W
R4762	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R4763	ERJ8GCYJ224	M 220KOHM, J,1/8W
R4765	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4766	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4767	ERG1SJ181P	M 180OHM, J, 1W
R4768	ERJ8GCY0R00	M 0OHM, J,1/8W
R4771	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R4772	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4773	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R4774	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R4775	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R4776	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R4777	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R4778	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R4801	ERJ8GCYJ334	M 330KOHM, J,1/8W
R4802	ERJ8GCYK275	M 2.7MOHM, G,1/8W
R4803	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4804	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R4805	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R4806	ERJ8GCYJ333	M 33KOHM, J,1/8W
R4807	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4808	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4809	ERJ8GCYJ223	M 22KOHM, J,1/8W
R4810	ERJ8GCYJ223	M 22KOHM, J,1/8W
R4811	ERJ8GCYJ223	M 22KOHM, J,1/8W
R4812	ERJ8GCYJ104	M 100KOHM, J,1/8W
R4813	ERJ8GCYJ564	M 560KOHM, J,1/8W
R4814	ERJ8GCYK395	M 3.9KOHM, K,1/8W
R4815	ERJ8GCYJ473	M 47KOHM, J,1/8W
R4816	ERJ8GCYJ473	M 47KOHM, J,1/8W
R4817	ERJ8GCYJ105	M 1MOHM, J,1/8W
R4818	ERJ8GCYK155	M 1.5MOHM, G,1/8W
R4819	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R4820	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R4821	ERJ8GCYK395	M 3.9KOHM, K,1/8W
R4822	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R4823	EVND4AA00B13	CONTROL 1KOHMB
R4824	ERJ8GCYJ101	M 100OHM, J,1/8W
R4825	ERJ8GCYJ101	M 100OHM, J,1/8W
R4826	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4827	ERJ8GCYJ101	M 100OHM, J,1/8W
R4828	ERJ8GCYJ391	M 390OHM, J,1/8W
R4829	EVND4AA00B53	CONTROL 5KOHMB
R4830	EVND4AA00B53	CONTROL 5KOHMB
R4831	ERJ8GCYJ561	M 560OHM, J,1/8W
R4832	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R4833	ERJ8GCYJ561	M 560OHM, J,1/8W
R4834	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R4835	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R4836	ERJ8GCYJ393	M 39KOHM, J,1/8W
R4837	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4838	EVND4AA00B14	CONTROL 10KOHMB
R4839	ERJ8GCYJ153	M 15KOHM, J,1/8W
R4840	ERJ8GCYJ333	M 33KOHM, J,1/8W
R4841	ERJ8GCYJ102	M 1KOHM, J,1/8W
R4842	ERJ8GCYJ473	M 47KOHM, J,1/8W
R4843	EVND4AA00B54	CONTROL 50KOHMB
R4844	ERJ8GCYJ473	M 47KOHM, J,1/8W
R4845	ERJ8GCYJ273	M 27KOHM, J,1/8W
R4846	ERJ8GCYJ223	M 22KOHM, J,1/8W
R4847	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R4871	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R4872	ERJ8GCYJ331	M 330OHM, J,1/8W
R4873	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R4874	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R4875	ERJ8GCYJ680	M 68OHM, J,1/8W
R4876	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4881	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R4882	ERJ8GCYJ331	M 330OHM, J,1/8W

Ref.No.	Part No.	Description
R4883	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R4884	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R4885	ERJ8GCYJ680	M 68OHM, J,1/8W
R4886	ERJ8GCYJ103	M 10KOHM, J,1/8W
R4891	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R4892	ERJ8GCYJ331	M 330OHM, J,1/8W
R4893	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R4894	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R4895	ERJ8GCYJ680	M 68OHM, J,1/8W
R4896	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5001	ERJ8GCYJ271	M 270OHM, J,1/8W
R5002	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5003	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5004	ERJ8GCYJ471	M 470OHM, J,1/8W
R5005	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R5006	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R5007	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R5008	ERD25FJ220	C 22OHM, J,1/4W
R5009	ERJ8GCYJ273	M 27KOHM, J,1/8W
R5011	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R5012	ERDS1FJ152	C 1.5KOHM, J,1/2W
R5013	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5014	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R5015	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R5016	ERJ8GCYJ561	M 560OHM, J,1/8W
R5017	EVN38CA00B23	CONTROL 2KOHMB
R5018	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R5019	EVN38CA00B14	CONTROL 10KOHMB
R5020	ERJ8GCYJ561	M 560OHM, J,1/8W
R5021	EVN38CA00B23	CONTROL 2KOHMB
R5022	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5023	EVN38CA00B14	CONTROL 10KOHMB
R5025	EVN38CA00B24	CONTROL 20KOHMB
R5026	ERJ8GCYJ273	M 27KOHM, J,1/8W
R5027	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R5028	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5029	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5030	ERJ8GCYJ153	M 15KOHM, J,1/8W
R5031	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5032	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5033	ERJ8GCYJ101	M 100OHM, J,1/8W
R5034	ERJ8GCYJ101	M 100OHM, J,1/8W
R5035	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R5036	ERJ8GCYJ683	M 68KOHM, J,1/8W
R5037	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5038	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R5039	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5040	ERJ8GCYJ100	M 10OHM, J,1/8W
R5041	ERJ8GCYJ681	M 680OHM, J,1/8W
R5043	ERJ8GCYJ104	M 100KOHM, J,1/8W
R5044	ERJ8GCYJ101	M 100OHM, J,1/8W
R5050	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R5051	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5052	ERJ8GCYJ123	M 12KOHM, J,1/8W
R5053	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5054	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5055	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R5056	ERG1SJ122P	M 1.2KOHM, J, 1W

Ref.No.	Part No.	Description
R5057	ERJ8GCYJ100	M 10OHM, J,1/8W
R5058	ERG5CJ471	M 470OHM, J, 5W
R5059	ERF2AKR22	W 0.22OHM, K, 2W
R5060	ERX1SJ5R6P	M 5.6OHM, J, 1W
R5061	ERJ8GCYJ123	M 12KOHM, J,1/8W
R5062	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5063	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5064	ERJ8GCYJ393	M 39KOHM, J,1/8W
R5065	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5066	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5067	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5068	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5070	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R5071	ERJ8GCYJ101	M 100OHM, J,1/8W
R5074	ERG3SJ103H	M 10KOHM, J, 3W
R5075	ERJ8GCYJ101	M 100OHM, J,1/8W
R5076	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5077	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R5078	EVN38CA00B14	CONTROL 10KOHMB
R5079	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5080	ERJ8GCYJ681	M 680OHM, J,1/8W
⚠ R5081	ERF2AK6R8	W 6.8OHM, K, 2W
R5082	ERDS1FJ152	C 1.5KOHM, J,1/2W
R5083	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R5084	ERJ8GCYJ183	M 18KOHM, J,1/8W
R5085	ERJ8GCYJ393	M 39KOHM, J,1/8W
R5086	ERG1SJ183P	M 18KOHM, J, 1W
R5087	ERJ8GCYJ221	M 220OHM, J,1/8W
R5088	ERDS1TJ182	C 1.8OHM, J,1/2W
R5089	ERG3SJ682H	M 6.8KOHM, J, 3W
⚠ R5090	ERQ1CJP1R0S	F 1OHM, J, 1W
R5091	ERX3SJ2R7H	M 2.7OHM, J, 3W
R5092	ERDS1TJ224	C 220KOHM, J,1/2W
R5093	ERDS1TJ224	C 220KOHM, J,1/2W
R5094	ERDS1TJ224	C 220KOHM, J,1/2W
R5097	ERDS1TJ823	C 82KOHM, J,1/2W
R5098	ERG2SJ822H	M 8.2KOHM, J, 2W
R5099	ERDS1FJ331	C 330OHM, J,1/2W
R5100	ERDS1TJ823	C 82KOHM, J,1/2W
R5101	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R5102	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5103	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R5104	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5105	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5106	ERJ8GCYJ101	M 100OHM, J,1/8W
R5107	ERG2SJ271H	M 270OHM, J, 2W
R5108	ERG2SJ271H	M 270OHM, J, 2W
R5109	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5110	ERJ8GCYJ153	M 15KOHM, J,1/8W
R5111	ERJ8GCYJ183	M 18KOHM, J,1/8W
R5112	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R5113	ERDS1TJ222	C 2.2KOHM, J,1/2W
R5114	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R5115	ERJ8GCYJ101	M 100OHM, J,1/8W
R5116	ERJ8GCYJ563	M 56KOHM, J,1/8W
R5117	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R5118	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5119	ERJ8GCYJ183	M 18KOHM, J,1/8W

Ref.No.	Part No.	Description
R5120	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5121	EVN38CA00B34	CONTROL 30KOHMB
R5122	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5123	EVN38CA00B34	CONTROL 30KOHMB
R5124	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R5125	ERJ8GCYJ104	M 100KOHM, J,1/8W
R5126	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R5127	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R5128	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5129	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R5130	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R5131	ERJ8GCYJ101	M 100OHM, J,1/8W
R5132	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5133	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R5134	ERDS1TJ823	C 82KOHM, J,1/2W
R5135	ERJ8GCYJ101	M 100OHM, J,1/8W
R5136	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5137	ERJ8GCYJ183	M 18KOHM, J,1/8W
R5138	ERJ8GCYJ681	M 680OHM, J,1/8W
R5139	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5140	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5141	ERJ8GCYJ183	M 18KOHM, J,1/8W
R5142	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R5143	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5144	ERJ8GCYJ101	M 100OHM, J,1/8W
R5145	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5146	ERJ8GCYJ101	M 100OHM, J,1/8W
R5147	ERJ8GCYJ101	M 100OHM, J,1/8W
R5148	ERJ8GCYJ101	M 100OHM, J,1/8W
R5149	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5150	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5151	ERDS2TJ681	C 680OHM, J,1/4W
R5152	ERJ8GCYJ101	M 100OHM, J,1/8W
R5153	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R5154	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R5155	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R5156	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R5157	ERJ8GCYJ153	M 15KOHM, J,1/8W
R5158	EVN38CA00B24	CONTROL 20KOHMB
R5159	ERDS1TJ152	C 1.5KOHM, J,1/2W
R5160	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R5161	ERJ8GCYJ183	M 18KOHM, J,1/8W
R5162	ERJ8GCYJ101	M 100OHM, J,1/8W
R5163	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R5164	ERG2SJ390H	M 39OHM, J, 2W
R5165	ERD25FJ100	C 10OHM, J,1/4W
R5166	ERJ8GCYJ101	M 100OHM, J,1/8W
R5167	ERQ2ABJP120S	F 12OHM, 2W
R5168	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R5169	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R5170	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R5171	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5172	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5173	ERX1SJR68P	M 0.68OHM, 1W
R5174	ERJ8GCYJ151	M 150OHM, J,1/8W
R5175	ERJ8GCYJ333	M 33KOHM, J,1/8W
R5175	ERTD2FFL601S	THERMISTER 600OHM
R5176	ERJ8GCYJ273	M 27KOHM, J,1/8W
R5176	ERQ1CJP5R6S	F 5.60HM, J, 1W
R5178	ERJ8GCYJ101	M 100OHM, J,1/8W
R5501	ERJ8GCYJ101	M 100OHM, J,1/8W
R5502	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5503	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R5504	ERJ8GCYJ123	M 12KOHM, J,1/8W
R5505	ERJ8GCYJ101	M 100OHM, J,1/8W
R5506	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5507	ERJ8GCYJ101	M 100OHM, J,1/8W
R5508	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5509	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5510	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5511	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5512	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5513	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5514	ERJ8GCYJ271	M 270OHM, J,1/8W
R5515	ERJ8GCYJ101	M 100OHM, J,1/8W
R5516	ERJ8GCYJ564	M 560KOHM, J,1/8W
R5517	ERJ8GCYJ125	C 1.2MOHM, J,1/8W
R5518	ERJ8GCYJ334	M 330KOHM, J,1/8W
R5519	ERJ8GCYJ123	M 12KOHM, J,1/8W
R5520	EVN38CA00B24	CONTROL 20KOHMB
R5521	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5522	EVN38CA00B24	CONTROL 20KOHMB
R5523	ERJ8GCYJ183	M 18KOHM, J,1/8W
R5524	EVN38CA00B54	CONTROL 50KOHMB
R5525	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5526	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5527	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5528	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5529	ERJ8GCYJ101	M 100OHM, J,1/8W
R5530	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R5531	ERJ8GCYJ393	M 39KOHM, J,1/8W
R5533	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R5534	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R5535	ERJ8GCYJ220	M 22OHM, J,1/8W
R5536	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R5537	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R5538	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5539	ERJ8GCYJ331	M 330OHM, J,1/8W
R5540	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R5541	ERJ8GCYJ101	M 100OHM, J,1/8W
R5542	ERJ8GCYJ101	M 100OHM, J,1/8W
R5543	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5544	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R5545	ERD25FJ821	C 820OHM, J,1/4W
R5546	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5547	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
R5548	ERDS1FJ821	C 820OHM, J,1/2W
R5549	ERJ8GCYJ394	M 390KOHM, J,1/8W
R5550	EVN38CA00B53	CONTROL 5KOHMB
R5551	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R5552	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R5553	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5554	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5555	ERJ8GCYJ104	M 100KOHM, J,1/8W
R5556	ERJ8GCYJ103	M 10KOHM, J,1/8W
⚠ R5557	ERX1SJ3R3P	M 3.3OHM, J, 1W
R5558	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5559	ERDS1TJ271	C 270OHM, J,1/2W

Ref.No.	Part No.	Description
R5560	ERG2SJ472H	M 4.7KOHM, J, 2W
R5561	ERG2SJ682H	M 6.8KOHM, J, 2W
R5562	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5563	ERDS1TJ3R3	C 3.3OHM, J,1/2W
R5564	ERQ3CJ680	F 68OHM, J, 3W
R5565	ERDS1TJ3R3	C 3.3OHM, J,1/2W
R5566	ERDS1TJ3R3	C 3.3OHM, J,1/2W
R5567	ERDS1TJ223	C 22KOHM, J,1/2W
R5568	ERG1SJ102P	M 1KOHM, J, 1W
R5569	ERDS1FJ1R0	C 1OHM, J,1/2W
R5570	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5571	ERJ8GCYJ183	M 18KOHM, J,1/8W
R5572	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5573	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5574	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5575	ERJ8GCYJ101	M 100OHM, J,1/8W
R5576	ERJ8GCYJ101	M 100OHM, J,1/8W
R5577	EVN38CA00B24	CONTROL 20KOHMB
R5578	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5579	ERJ8GCYJ123	M 12KOHM, J,1/8W
R5580	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5581	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5582	ERJ8GCYJ223	M 22KOHM, J,1/8W
R5583	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R5584	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5585	ERJ8GCYJ123	M 12KOHM, J,1/8W
R5586	ERJ8GCYJ103	M 10KOHM, J,1/8W
R5587	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R5588	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5589	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R5590	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5591	ERJ8GCYJ101	M 100OHM, J,1/8W
R5593	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R5594	ERJ8GCYJ393	M 39KOHM, J,1/8W
R5595	EVN38CA00B23	CONTROL 2KOHMB
R5596	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5597	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R5598	ERDS1FJ102	C 1KOHM, J,1/2W
R5600	ERJ8GCYJ101	M 100OHM, J,1/8W
R5601	ERJ8GCYJ101	M 100OHM, J,1/8W
R5602	ERJ8GCYJ101	M 100OHM, J,1/8W
R5603	ERJ8GCYJ101	M 100OHM, J,1/8W
R5604	ERJ8GCYJ101	M 100OHM, J,1/8W
R5605	ERJ8GCYJ151	M 150OHM, J,1/8W
R5606	ERJ8GCYJ102	M 1KOHM, J,1/8W
R5607	ERDS2TJ332	C 3.3KOHM, J,1/4W
R5608	ERDS2TJ272	C 2.7KOHM, J,1/4W
R5609	ERDS2TJ472	C 4.7KOHM, J,1/4W
R5610	ERDS2TJ472	C 4.7KOHM, J,1/4W
R5611	ERDS2TJ102	C 1KOHM, J,1/4W
R5612	ERDS2TJ122	C 1.2KOHM, J,1/4W
R5613	ERDS2TJ123	C 12KOHM, J,1/4W
R5614	ERDS2TJ102	C 1KOHM, J,1/4W
R5615	ERDS2TJ473	C 47KOHM, J,1/4W
R5616	ERDS2TJ102	C 1KOHM, J,1/4W
R5617	ERDS2TJ394	C 390KOHM, J,1/4W
R5618	ERDS2TJ822	C 8.2KOHM, J,1/4W
R5619	ERDS2TJ470	C 47OHM, J,1/4W
R5620	ERDS2TJ273	C 27KOHM, J,1/4W

Ref.No.	Part No.	Description
R5621	ERDS2TJ104	C 100KOHM, J,1/4W
R5622	ERDS2TJ223	C 22KOHM, J,1/4W
R5623	ERDS2TJ562	C 5.6KOHM, J,1/4W
R5624	ERDS2TJ101	C 100OHM, J,1/4W
R5625	ERDS2TJ560	C 56OHM, J,1/4W
R5626	ERDS2TJ560	C 56OHM, J,1/4W
R5627	ERJ8GCYJ122	M 1.2KOHM, J,1/8W
R5628	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R5629	ERJ8GCYJ471	M 470OHM, J,1/8W
R5630	ERJ8GCYJ560	M 56OHM, J,1/8W
R5631	ERJ8GCYJ560	M 56OHM, J,1/8W
R5632	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R5633	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R5634	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R5635	ERJ8GCYJ101	M 100OHM, J,1/8W
R6001	ERJ8GCYJ101	M 100OHM, J,1/8W
R6002	ERJ8GCYJ103	M 10KOHM, J,1/8W
R6004	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R6005	ERDS1TJ122	C 1.2KOHM, J,1/2W
R6006	ERJ8GCYJ5R6	M 5.6OHM, J,1/8W
R6007	ERDS1TJ224	C 220KOHM, J,1/2W
R6008	ERDS1TJ224	C 220KOHM, J,1/2W
R6009	ERC12GK335	S 3.3MOHM, K,1/2W
R6010	ERC12GK335	S 3.3MOHM, K,1/2W
R6011	ERC12GK335	S 3.3MOHM, K,1/2W
⚠ R6012	ERJ8GCYJ393	M 39KOHM, J,1/8W
⚠ R6013	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
⚠ R6014	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
⚠ R6015	ERJ8GCYJ102	M 1KOHM, J,1/8W
R6016	ERDS1TJ224	C 220KOHM, J,1/2W
⚠ R6017	ERJ8GCYJ102	M 1KOHM, J,1/8W
⚠ R6018	ERJ8GCYJ103	M 10KOHM, J,1/8W
R6019	ERJ8GCYJ104	M 100KOHM, J,1/8W
R6020	ERD25TJ104	C 100KOHM, J,1/4W
R6021	EVN32CA00B53	CONTROL 5KOHMB
R6022	ERD25TJ103	C 10KOHM, J,1/4W
R6024	ERJ8GCYJ273	M 27KOHM, J,1/8W
R6025	ERJ8GCYJ824	M 820KOHM, J,1/8W
R6026	ERO25CKF2702	M 27KOHM, F,1/4W
⚠ R6027	ERO25CKF1002	M 10KOHM, F,1/4W
R6029	ERO25CKF2702	M 27KOHM, F,1/4W
R6031	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R6032	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R6033	ERJ8GCYJ473	M 47KOHM, J,1/8W
⚠ R6034	ERO25CKF1001	M 1KOHM, F,1/4W
R6036	ERJ8GCYJ153	M 15KOHM, J,1/8W
R6037	ERJ8GCYJ153	M 15KOHM, J,1/8W
R6038	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R6040	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R6041	ERJ8GCYJ103	M 10KOHM, J,1/8W
R6042	ERJ8GCYJ221	M 220OHM, J,1/8W
R6043	ERJ8GCYJ103	M 10KOHM, J,1/8W
R6044	ERJ8GCYJ103	M 10KOHM, J,1/8W
R6045	ERJ8GCYJ103	M 10KOHM, J,1/8W
R6048	ERD25TJ472	C 4.7KOHM, J,1/4W
R6049	ERJ8GCYJ102	M 1KOHM, J,1/8W
R6050	ERJ8GCYJ103	M 10KOHM, J,1/8W
R6051	ERJ8GCYJ103	M 10KOHM, J,1/8W
R6052	ERJ8GCYJ103	M 10KOHM, J,1/8W

	Ref.No.	Part No.	Description
	R6053	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6054	ER025CKF1002	M 10KOHM, F,1/4W
	R6055	ER025CKF1302	M 13KOHM, F,1/4W
	R6056	ERD25TJ274	C 270KOHM, J,1/4W
⚠	R6059	ERF5ZK2R2	W 2.2OHM, K, 5W
	R6064	ERJ8GCYJ102	M 1KOHM, J,1/8W
	R6065	ERJ8GCYJ101	M 100OHM, J,1/8W
⚠	R6066	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
⚠	R6067	ERJ8GCYJ561	M 560OHM, J,1/8W
	R6068	ERJ8GCYJ333	M 33KOHM, J,1/8W
	R6069	ERJ8GCYJ474	M 470KOHM, J,1/8W
⚠	R6070	ERD25TJ823	C 82KOHM, J,1/4W
⚠	R6071	EVN32CA00B53	CONTROL 5KOHMB
⚠	R6072	ERD25TJ332	C 3.3KOHM, J,1/4W
⚠	R6073	ERG2SJ393	M 39KOHM, J, 2W
	R6074	ERDS1TJ122	C 1.2KOHM, J,1/2W
⚠	R6075	ERDS1TJ152	C 1.5KOHM, J,1/2W
⚠	R6076	ERDS1TJ561	C 560OHM, J,1/2W
	R6077	ERF2AKR47	W 0.47OHM, K, 2W
	R6078	ERF2AKR47	W 0.47OHM, K, 2W
	R6079	ERDS1FJ221	C 220OHM, J,1/2W
	R6081	ERF2AKR27	W 0.27OHM, K, 2W
	R6093	ERJ8GCYJ823	M 82KOHM, J,1/8W
	R6094	ERJ8GCYJ104	M 100KOHM, J,1/8W
⚠	R6099	ERJ8GCYJ153	M 15KOHM, J,1/8W
⚠	R6100	ERJ8GCYJ563	M 56KOHM, J,1/8W
⚠	R6104	ERJ8GCYJ393	M 39KOHM, J,1/8W
⚠	R6105	EVN32CA00B14	CONTROL 10KOHMB
⚠	R6106	ERJ8GCYJ223	M 22KOHM, J,1/8W
⚠	R6107	ERJ8GCYJ123	M 12KOHM, J,1/8W
⚠	R6108	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
⚠	R6109	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
⚠	R6110	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
	R6111	ERJ8GCYJ102	M 1KOHM, J,1/8W
	R6121	ERDS1FJ103	C 10KOHM, J,1/2W
	R6122	ERDS1FJ101	C 100OHM, J,1/2W
⚠	R6123	ERJ8GCYJ101	M 100OHM, J,1/8W
	R6125	ERJ8GCYJ334	M 330KOHM, J,1/8W
	R6126	ERJ8GCYJ223	M 22KOHM, J,1/8W
	R6127	ERJ8GCYJ473	M 47KOHM, J,1/8W
	R6128	ERJ8GCYJ124	M 120KOHM, J,1/8W
	R6129	ERQ2CJP4R7S	F 4.7OHM, J, 2W
	R6133	ERDS1TJ101	C 100OHM, J,1/2W
⚠	R6134	ERDS1FJ221	C 220OHM, J,1/2W
	R6137	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6138	ERD25TJ682	C 6.8KOHM, J,1/4W
	R6139	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6140	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
	R6141	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
	R6142	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6143	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6144	ERJ8GCYJ102	M 1KOHM, J,1/8W
	R6149	ERG3SJ561H	M 560OHM, J, 3W
	R6150	ERDS1FJ5R6	C 5.6OHM, J,1/2W
	R6153	ERJ8GCYJ102	M 1KOHM, J,1/8W
	R6154	ERJ8GCYJ153	M 15KOHM, J,1/8W
	R6155	ERJ8GCYJ153	M 15KOHM, J,1/8W
	R6156	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
	R6157	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6158	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6159	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6160	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6161	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
	R6162	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6163	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
	R6164	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6165	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
	R6166	ERJ8GCYJ153	M 15KOHM, J,1/8W
	R6167	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6168	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6169	ERJ8GCYJ221	M 220OHM, J,1/8W
	R6170	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6171	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6172	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6173	ERJ8GCYJ221	M 220OHM, J,1/8W
	R6174	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6175	ERJ8GCYJ102	M 1KOHM, J,1/8W
	R6176	ERJ8GCYJ153	M 15KOHM, J,1/8W
	R6177	ERJ8GCYJ153	M 15KOHM, J,1/8W
	R6178	ERJ8GCYJ223	M 22KOHM, J,1/8W
	R6179	ERJ8GCYJ223	M 22KOHM, J,1/8W
	R6180	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6181	ER025CKF1403	M 140KOHM, F,1/4W
	R6182	ER025CKF1502	M 15KOHM, F,1/4W
	R6183	ER025CKF4701	M 4.7KOHM F,1/4W
	R6184	ER025CKF8201	M 8.2KOHM, F,1/4W
	R6185	ERJ8GCYJ683	M 68KOHM, J,1/8W
	R6186	ERDS1TJ683	C 68KOHM, J,1/2W
	R6187	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6188	ERJ8GCYJ223	M 22KOHM, J,1/8W
	R6189	ERJ8GCYJ153	M 15KOHM, J,1/8W
	R6190	ERJ8GCYJ153	M 15KOHM, J,1/8W
	R6191	ERJ8GCYJ153	M 15KOHM, J,1/8W
	R6192	ERJ8GCYJ273	M 27KOHM, J,1/8W
	R6193	ERJ8GCYJ273	M 27KOHM, J,1/8W
	R6194	ERJ8GCYJ273	M 27KOHM, J,1/8W
⚠	R6201	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
⚠	R6202	ERDS1FJ473	C 47KOHM, J,1/2W
⚠	R6203	EVN32CA00B14	CONTROL 10KOHMB
⚠	R6204	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6205	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R6206	ERJ8GCYJ102	M 1KOHM, J,1/8W
	R7001	ERQ2ABJP2R2S	F 2.2OHM, 2W
	R7002	ERQ2ABJP2R2S	F 2.2OHM, 2W
	R7003	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R7004	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R7005	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
	R7006	ERJ8GCYJ102	M 1KOHM, J,1/8W
	R7008	ERJ8GCYJ101	M 100OHM, J,1/8W
	R7009	ERJ8GCYJ101	M 100OHM, J,1/8W
	R7010	ERJ8GCYJ101	M 100OHM, J,1/8W
	R7011	ERJ8GCYJ101	M 100OHM, J,1/8W
	R7012	ERJ8GCYJ101	M 100OHM, J,1/8W
	R7013	ERJ8GCYJ101	M 100OHM, J,1/8W
	R7014	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
	R7015	ERJ8GCYJ223	M 22KOHM, J,1/8W
	R7016	ERDS1FJ470	C 47OHM, J,1/2W

Ref.No.	Part No.	Description
R7017	ERJ8GCYJ101	M 100OHM, J,1/8W
R7018	ERJ8GCYJ101	M 100OHM, J,1/8W
R7019	ERJ8GCYJ101	M 100OHM, J,1/8W
R7020	ERJ8GCYJ101	M 100OHM, J,1/8W
R7021	ERJ8GCYJ101	M 100OHM, J,1/8W
R7022	ERJ8GCYJ101	M 100OHM, J,1/8W
R7023	ERJ8GCYJ101	M 100OHM, J,1/8W
R7024	ERJ8GCYJ101	M 100OHM, J,1/8W
R7025	ERJ8GCYJ101	M 100OHM, J,1/8W
R7026	ERJ8GCYJ101	M 100OHM, J,1/8W
R7027	ERJ8GCYJ101	M 100OHM, J,1/8W
R7028	ERJ8GCYJ101	M 100OHM, J,1/8W
R7029	ERJ8GCYJ101	M 100OHM, J,1/8W
R7030	ERJ8GCYJ101	M 100OHM, J,1/8W
R7031	ERJ8GCYJ101	M 100OHM, J,1/8W
R7032	ERJ8GCYJ101	M 100OHM, J,1/8W
R7033	ERJ8GCYJ101	M 100OHM, J,1/8W
R7034	ERJ8GCYJ101	M 100OHM, J,1/8W
R7035	ERJ8GCYJ101	M 100OHM, J,1/8W
R7036	ERJ8GCYJ101	M 100OHM, J,1/8W
R7037	ERJ8GCYJ105	M 1MOHM, J,1/8W
R7038	ERJ8GCYJ101	M 100OHM, J,1/8W
R7039	ERJ8GCYJ101	M 100OHM, J,1/8W
R7040	ERJ8GCYJ101	M 100OHM, J,1/8W
R7041	ERJ8GCYJ101	M 100OHM, J,1/8W
R7042	ERJ8GCYJ101	M 100OHM, J,1/8W
R7043	ERJ8GCYJ101	M 100OHM, J,1/8W
R7044	ER025CKF1501	M 1.5KOHM, F,1/4W
R7045	ER025CKF1502	M 15KOHM, F,1/4W
R7046	ERJ8GCYJ561	M 560OHM, J,1/8W
R7047	ER025CKF4701	M 4.7KOHM F,1/4W
R7048	ER025CKF9101	M 9.1KOHM, F,1/4W
R7049	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7050	ERJ8GCYJ561	M 560OHM, J,1/8W
R7051	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7052	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7053	ER025CKF1003	M 100KOHM, F,1/4W
R7054	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7055	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7056	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7057	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7058	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7059	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7060	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R7061	ERJ8GCYJ153	M 15KOHM, J,1/8W
R7062	ERJ8GCYJ153	M 15KOHM, J,1/8W
R7065	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7066	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7067	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7068	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7069	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7070	ERDS1FJ1R0	C 1OHM, J,1/2W
R7071	ERDS1FJ1R0	C 1OHM, J,1/2W
R7072	ERDS1FJ1R0	C 1OHM, J,1/2W
R7073	ERDS1FJ1R0	C 1OHM, J,1/2W
R7081	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7082	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R7083	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7084	ERJ8GCYJ472	M 4.7KOHM, J,1/8W

Ref.No.	Part No.	Description
R7085	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7086	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7087	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7088	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7089	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7090	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7091	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7092	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7093	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7094	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7095	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7096	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7097	ERJ8GCYJ101	M 100OHM, J,1/8W
R7098	ERJ8GCYJ101	M 100OHM, J,1/8W
R7099	ERJ8GCYJ105	M 1MOHM, J,1/8W
R7100	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7101	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7102	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7103	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7104	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7105	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7106	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R7107	ERJ8GCYJ912	M 9.1KOHM, J,1/8W
R7108	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7109	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7110	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7111	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7112	ERJ8GCYJ105	M 1MOHM, J,1/8W
R7113	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7114	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7115	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7116	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7117	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7118	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R7119	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7120	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7121	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7123	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7124	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7125	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7126	ERJ8GCYJ123	M 12KOHM, J,1/8W
R7127	ERJ8GCYJ123	M 12KOHM, J,1/8W
R7128	ERJ8GCYJ752	M 7.5KOHM, J,1/8W
R7129	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7130	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7131	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7132	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7133	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7135	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7136	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7137	ERJ8GCYJ123	M 12KOHM, J,1/8W
R7138	ERJ8GCYJ752	M 7.5KOHM, J,1/8W
R7139	ERJ8GCYJ123	M 12KOHM, J,1/8W
R7140	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7141	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7142	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7143	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7144	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7145	ERJ8GCYJ273	M 27KOHM, J,1/8W

Ref.No.	Part No.	Description
R7146	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7147	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7148	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7149	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7151	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7152	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7153	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7154	ERJ8GCYJ123	M 12KOHM, J,1/8W
R7155	ERJ8GCYJ123	M 12KOHM, J,1/8W
R7156	ERJ8GCYJ752	M 7.5KOHM, J,1/8W
R7157	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7158	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R7159	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7160	ERJ8GCYJ752	M 7.5KOHM, J,1/8W
R7161	ERJ8GCYJ752	M 7.5KOHM, J,1/8W
R7162	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7163	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7164	ERJ8GCYJ752	M 7.5KOHM, J,1/8W
R7165	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7166	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7167	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7181	ERJ8GCYJ101	M 100OHM, J,1/8W
R7182	ERJ8GCYJ101	M 100OHM, J,1/8W
R7183	ERJ8GCYJ101	M 100OHM, J,1/8W
R7184	ERJ8GCYJ101	M 100OHM, J,1/8W
R7185	ERJ8GCYJ101	M 100OHM, J,1/8W
R7186	ERJ8GCYJ101	M 100OHM, J,1/8W
R7201	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7202	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7203	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7204	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7205	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7206	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7207	ERJ8GCYJ105	M 1MOHM, J,1/8W
R7208	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7209	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7210	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7211	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7212	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7213	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7214	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7215	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7216	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7217	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7218	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7219	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7220	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7221	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7222	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7223	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7225	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7226	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7227	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7228	ERJ8GCYJ123	M 12KOHM, J,1/8W
R7229	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R7230	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7231	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7232	ERJ8GCYJ273	M 27KOHM, J,1/8W

Ref.No.	Part No.	Description
R7233	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7234	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7235	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7236	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7237	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7251	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7252	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7253	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7254	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7255	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7256	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7257	ERJ8GCYJ105	M 1MOHM, J,1/8W
R7258	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7259	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7260	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7261	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7262	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7263	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7264	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7265	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7266	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7267	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7268	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7269	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7270	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7271	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7272	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7273	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7275	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7276	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7277	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7278	ERJ8GCYJ123	M 12KOHM, J,1/8W
R7279	ERJ8GCYJ123	M 12KOHM, J,1/8W
R7280	ERJ8GCYJ752	M 7.5KOHM, J,1/8W
R7281	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R7282	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7283	ERJ8GCYJ273	M 27KOHM, J,1/8W
R7284	ERJ8GCYJ223	M 22KOHM, J,1/8W
R7285	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7286	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7287	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7301	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7302	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7303	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R7305	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7306	EVND4AA00B24	CONTROL 20KOHMB
R7307	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7308	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7309	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7310	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7311	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7312	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7313	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7314	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R7317	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7318	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R7319	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7320	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7321	ERJ8GCYJ272	M 2.7KOHM, J,1/8W

Ref.No.	Part No.	Description
R7322	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7323	EVND4H00RB24	CONTROL 20KOHMB
R7325	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7326	EVND4H00RB24	CONTROL 20KOHMB
R7327	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7328	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7329	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7330	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R7333	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7334	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R7335	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7336	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7337	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R7338	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7339	EVND4H00BB24	CONTROL 20KOHMB
R7340	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7341	EVND4H00BB24	CONTROL 20KOHMB
R7342	ERJ8GCYJ563	M 56KOHM, J,1/8W
R7343	ERJ8GCYJ333	M 33KOHM, J,1/8W
R7344	ERJ8GCYJ563	M 56KOHM, J,1/8W
R7345	ERJ8GCYJ333	M 33KOHM, J,1/8W
R7346	ERJ8GCYJ563	M 56KOHM, J,1/8W
R7347	ERJ8GCYJ333	M 33KOHM, J,1/8W
R7348	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7349	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7350	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7351	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7352	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7353	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R7361	ERJ8GCYJ101	M 100OHM, J,1/8W
R7362	ERJ8GCYJ101	M 100OHM, J,1/8W
R7363	ERJ8GCYJ101	M 100OHM, J,1/8W
R7364	ERJ8GCYJ101	M 100OHM, J,1/8W
R7365	ERJ8GCYJ101	M 100OHM, J,1/8W
R7366	ERJ8GCYJ101	M 100OHM, J,1/8W
R7371	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7372	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7377	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7378	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7379	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7380	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7381	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7382	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7383	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7384	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7385	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R7387	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7388	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7389	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7390	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7391	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7392	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7393	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7394	ERJ8GCYJ103	M 10KOHM, J,1/8W
R7401	ERJ8GCYJ121	M 120OHM, J,1/8W
R7402	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7403	ERJ8GCYJ121	M 120OHM, J,1/8W
R7404	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7405	ERDS1FJ820	C 82OHM, J,1/2W
R7406	ERDS1FJ1R0	C 1OHM, J,1/2W
R7407	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7408	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7409	ERQ2CJP5R6S	F 5.6OHM, J, 2W
R7410	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7411	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7412	ERQ2CJP5R6S	F 5.6OHM, J, 2W
R7413	ERDS1FJ820	C 82OHM, J,1/2W
R7414	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7415	ERDS1FJ1R0	C 1OHM, J,1/2W
R7416	ERJ8GCYJ121	M 120OHM, J,1/8W
R7417	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7418	ERJ8GCYJ121	M 120OHM, J,1/8W
R7419	ERJ8GCYJ121	M 120OHM, J,1/8W
R7420	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7421	ERJ8GCYJ121	M 120OHM, J,1/8W
R7422	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7423	ERDS1FJ820	C 82OHM, J,1/2W
R7424	ERDS1FJ1R0	C 1OHM, J,1/2W
R7425	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7426	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7427	ERX2SJ8R2H	M 8.2OHM, J, 2W
R7428	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7429	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7430	ERQ2CJP5R6S	F 5.6OHM, J, 2W
R7431	ERDS1FJ820	C 82OHM, J,1/2W
R7432	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7433	ERDS1FJ1R0	C 1OHM, J,1/2W
R7435	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7436	ERJ8GCYJ121	M 120OHM, J,1/8W
R7437	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R7438	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7440	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7441	ERDS1FJ681	C 680OHM, J,1/2W
R7442	ERDS1FJ1R0	C 1OHM, J,1/2W
R7443	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7444	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7445	ERX2SJ8R2H	M 8.2OHM, J, 2W
R7446	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7447	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7448	ERX2SJ8R2H	M 8.2OHM, J, 2W
R7449	ERDS1FJ681	C 680OHM, J,1/2W
R7450	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7451	ERDS1FJ1R0	C 1OHM, J,1/2W
R7452	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7453	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R7455	ERJ8GCYJ121	M 120OHM, J,1/8W
R7456	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7457	ERJ8GCYJ121	M 120OHM, J,1/8W
R7458	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7459	ERDS1FJ820	C 82OHM, J,1/2W
R7460	ERDS1FJ1R0	C 1OHM, J,1/2W
R7461	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7462	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7463	ERX2SJ8R2H	M 8.2OHM, J, 2W
R7464	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7465	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R7466	ERQ2CJP5R6S	F 5.6OHM, J, 2W
R7467	ERDS1FJ820	C 82OHM, J,1/2W

Ref.No.	Part No.	Description
R7468	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7469	ERDS1FJ1R0	C 1OHM, J,1/2W
R7470	ERJ8GCYJ121	M 120OHM, J,1/8W
R7471	ERJ8GCYJ102	M 1KOHM, J,1/8W
R7472	ERJ8GCYJ121	M 120OHM, J,1/8W
R7491	ERX2ANJ1R5	
R8001	ERJ8GCYJ473	M 47KOHM, J,1/8W
R8002	ERJ8GCYJ103	M 10KOHM, J,1/8W
R8003	ERG2SJ330H	M 33OHM, J, 2W
R8004	ERJ8GCYJ473	M 47KOHM, J,1/8W
R8005	ERJ8GCYJ103	M 10KOHM, J,1/8W
R8006	ERG2SJ330H	M 33OHM, J, 2W
R8007	ERJ8GCYJ473	M 47KOHM, J,1/8W
R8008	ERJ8GCYJ103	M 10KOHM, J,1/8W
R8009	ERG2SJ330H	M 33OHM, J, 2W
R8010	EVND4AA00B15	CONTROL 100KOHMB
R8011	EVND4AA00B15	CONTROL 100KOHMB
R8012	EVND4AA00B15	CONTROL 100KOHMB
R8013	ERJ8GCYJ102	M 1KOHM, J,1/8W
R8014	ERJ8GCYJ102	M 1KOHM, J,1/8W
R8015	ERJ8GCYJ102	M 1KOHM, J,1/8W
R8016	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R8041	ERJ8GCYJ333	M 33KOHM, J,1/8W
R8042	ERJ8GCYJ333	M 33KOHM, J,1/8W
R8043	ERJ8GCYJ333	M 33KOHM, J,1/8W
R8044	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R8045	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R8046	ERDS1TJ392	C 3.9KOHM, J,1/2W
R8047	ERJ8GCYJ102	M 1KOHM, J,1/8W
R8048	ERJ8GCYJ102	M 1KOHM, J,1/8W
R8049	ERDS1TJ102	C 1KOHM, J,1/2W
R8050	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R8051	ERDS1TJ104	C 100KOHM, J,1/2W
R8071	ERG5SJ153H	M 15KOHM, J, 5W
R8072	ERG5SJ153H	M 15KOHM, J, 5W
R8073	ERJ8GCYJ103	M 10KOHM, J,1/8W
R8074	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R8075	ERJ8GCYJ103	M 10KOHM, J,1/8W
R8076	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R8077	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R8078	ERJ8GCYJ103	M 10KOHM, J,1/8W
R8079	ERDS1TJ224	C 220KOHM, J,1/2W
R8080	ERJ8GCYJ102	M 1KOHM, J,1/8W
R8081	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R8082	ERDS1TJ221	C 220OHM, J,1/2W
R8083	ERDS1TJ221	C 220OHM, J,1/2W
R8084	ERDS1TJ221	C 220OHM, J,1/2W
R8085	ERJ8GCYJ102	M 1KOHM, J,1/8W
R8086	ERJ8GCYJ103	M 10KOHM, J,1/8W
R8087	ERDS2TJ101	C 100OHM, J,1/4W
R8088	ERDS2TJ101	C 100OHM, J,1/4W
R8089	ERDS2TJ101	C 100OHM, J,1/4W
R8090	ERDS2TJ101	C 100OHM, J,1/4W
R8091	ERDS2TJ101	C 100OHM, J,1/4W
R8092	ERDS2TJ101	C 100OHM, J,1/4W
R8093	ERJ8GCYJ223	M 22KOHM, J,1/8W
R8094	EVN38CA00B14	CONTROL 10KOHMB
R8095	ERJ8GCYJ223	M 22KOHM, J,1/8W

Ref.No.	Part No.	Description
⚠ R9002	ERF20ZK3R3	W 3.3OHM, 20W
⚠ R9003	ERF20ZK3R3	W 3.3OHM, 20W
⚠ R9004	ERC12ZGK105	S 1MOHM, K,1/2W
R9005	ERG3SJ273H	M 27KOHM, J, 3W
R9006	ERG3SJ273H	M 27KOHM, J, 3W
⚠ R9051	ERF2AJ101	W 100OHM, J, 2W
R9052	ERDS1TJ104	C 100KOHM, J,1/2W
R9053	ERDS2TJ102	C 1KOHM, J,1/4W
R9054	ERDS1TJ334	C 330KOHM, J,1/2W
R9055	ERDS1TJ181	C 180OHM, J,1/2W
R9056	ERDS2TJ6R8	C 6.8OHM, J,1/4W
R9058	ERDS2TJ222	C 2.2KOHM, J,1/4W
R9059	ERDS2TJ123	C 12KOHM, J,1/4W
R9060	ERDS2TJ152	C 1.5KOHM, J,1/4W
R9061	ERDS2TJ102	C 1KOHM, J,1/4W
R9062	ERDS2TJ273	C 27KOHM, J,1/4W
R9063	ERDS2TJ393	C 39KOHM, J,1/4W
R9064	ERDS2TJ393	C 39KOHM, J,1/4W
R9065	ERDS1FJ121	C 120OHM, J,1/2W
R9066	ERDS2TJ682	C 6.8KOHM, J,1/4W
R9067	ERDS2TJ393	C 39KOHM, J,1/4W
R9068	ERDS2TJ392	C 3.9KOHM, J,1/4W
R9069	ERDS2TJ223	C 22KOHM, J,1/4W
R9070	ERDS2TJ101	C 100OHM, J,1/4W
R9071	ERDS2TJ472	C 4.7KOHM, J,1/4W
R9073	ERDS2TJ102	C 1KOHM, J,1/4W
R9074	ERDS2TJ562	C 5.6KOHM, J,1/4W
R9075	ERDS1FJ121	C 120OHM, J,1/2W
R9076	ERDS1FJ121	C 120OHM, J,1/2W
R9077	ERDS2TJ101	C 100OHM, J,1/4W
R9078	ERDS2TJ102	C 1KOHM, J,1/4W
R9079	ERDS2TJ152	C 1.5KOHM, J,1/4W
R9091	ERDS2TJ562	C 5.6KOHM, J,1/4W
R9101	ERG2SJ333H	M 33KOHM, J, 2W
R9102	ERG2SJ333H	M 33KOHM, J, 2W
R9103	ERF2AKR68	W 0.68OHM, J, 2W
R9104	ERDS2TJ101	C 100OHM, J,1/4W
R9105	ERDS2TJ4R7	C 4.7OHM, J,1/4W
R9106	ERD25FJ3R9	C 3.9OHM, J,1/4W
⚠ R9107	ERD75TAJ825	C 8.2MOHM, J,3/4W
R9110	EVN32CA00B13	CONTROL 1KOHMB
R9151	ERDS2TJ561	C 560OHM, J,1/4W
R9152	ERDS2TJ681	C 680OHM, J,1/4W
R9153	ERQS2CKF4702	M 47KOHM, F,1/4W
R9154	ERDS2TJ123	C 12KOHM, J,1/4W
R9155	ERD25FJ222	C 2.2KOHM, J,1/4W
R9156	ERD25FJ100	C 10OHM, J,1/4W
R9157	ERD25FJ101	C 100OHM, J,1/4W
R9158	ERDS1TJ104	C 100KOHM, J,1/2W
R9159	ERDS1TJ564	C 560KOHM, J,1/2W
R9201	ERG3SJ333H	M 33KOHM, J, 3W
R9202	ERG3SJ333H	M 33KOHM, J, 3W
R9203	ERF2AKR68	W 0.68OHM, J, 2W
R9204	ERDS2TJ101	C 100OHM, J,1/4W
R9205	ERDS2TJ8R2	C 8.2OHM, J,1/4W
R9206	ERD25FJ8R2	C 8.2OHM, J,1/4W
R9207	ERDS2TJ103	C 10KOHM, J,1/4W
R9208	ERDS2TJ682	C 6.8KOHM, J,1/4W
R9209	ERDS2TJ101	C 100OHM, J,1/4W

	Ref.No.	Part No.	Description
	R9213	EVN32CA00B13	CONTROL 1KOHMB
	R9251	ERDS2TJ561	C 560OHM, J,1/4W
	R9252	ERDS2TJ681	C 680OHM, J,1/4W
	R9253	EROS2CKF4421	M4.42KOHM, F,1/4W
	R9254	ERDS2TJ101	C 100OHM, J,1/4W
	R9255	ERDS2TJ222	C 2.2KOHM, J,1/4W
	R9256	ERDS1TJ821	C 820OHM, J,1/2W
	R9257	ERDS2TJ821	C 820OHM, J,1/4W
⚠	R9258	ERQ1CKPR47S	F 0.47OHM, K, 1W
⚠	R9259	ERQ2CKPR47S	F 0.47OHM, K, 2W
	R9260	ERQ2CKPR47S	F 0.47OHM, K, 2W
	R9261	ERQ1CKPR33S	F 0.33OHM, K, 1W
	R9262	ERQ2CKPR47S	F 0.47OHM, K, 2W
	R9263	ERQ1CKPR33S	F 0.33OHM, K, 1W
⚠	R9264	ERQ1CKPR47S	F 0.47OHM, K, 1W
	R9301	ERG2ANJ333	
	R9302	ERG2ANJ333	
	R9303	ERF2AKR68	W 0.68OHM, J, 2W
	R9304	ERDS2TJ101	C 100OHM, J,1/4W
	R9305	ERD25FJ8R2	C 8.2OHM, J,1/4W
	R9351	ERDS2TJ561	C 560OHM, J,1/4W
	R9352	ERDS2TJ681	C 680OHM, J,1/4W
	R9353	ERDS2TJ822	C 8.2KOHM, J,1/4W
	R9354	EROS2CKF4702	M 47KOHM, F,1/4W
	R9355	ERDS2TJ222	C 2.2KOHM, J,1/4W
	R9356	EVN32CA00B13	CONTROL 1KOHMB
	R9357	ERQ12HKR22	F 0.22OHM, K,1/2W
	R9358	ERQ12HKR22	F 0.22OHM, K,1/2W
	R9359	ERQ12HKR22	F 0.22OHM, K,1/2W
	R9360	ERQ12HKR22	F 0.22OHM, K,1/2W
	R9361	ERG1SJ682P	M 6.8KOHM, J, 1W
⚠	R9362	ERQ12HKR56	F 0.56OHM, K,1/2W
	R9363	ERDS1TJ682	C 6.8KOHM, J,1/2W
	R9364	ERDS1TJ682	C 6.8KOHM, J,1/2W
	R9401	ERJ8GCYJ393	M 39KOHM, J,1/8W
	R9402	ERJ8GCYJ104	M 100KOHM, J,1/8W
	R9403	ERJ8GCYJ823	M 82KOHM, J,1/8W
	R9404	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
	R9405	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
	R9406	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
	R9407	ERJ8GCYJ390	M 39OHM, J,1/8W
	R9408	ERJ8GCYJ102	M 1KOHM, J,1/8W
	R9409	ERJ8GCYJ103	M 10KOHM, J,1/8W
	R9410	ERJ8GCYJ153	M 15KOHM, J,1/8W
	R9412	ERO25CKF1102	M 11KOHM, F,1/4W
	R9413	ERJ8GCYJ563	M 56KOHM, J,1/8W
	R9414	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
	R9416	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
	R9417	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
	R9418	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
	R9419	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
	R9420	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
	R9422	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
	R9423	ERJ8GCYJ104	M 100KOHM, J,1/8W
	R9424	ERJ8GCYJ391	M 390OHM, J,1/8W
	R9425	ERJ8GCYJ470	M 47OHM, J,1/8W
	R9426	ERG1SJ101P	M 100OHM, J, 1W
	R9427	ERJ8GCYJ100	M 10OHM, J,1/8W
	R9428	ERDS1TJ471	C 470OHM, J,1/2W

Ref.No.	Part No.	Description
R9429	ERJ8GCYJ271	M 270OHM, J,1/8W
R9430	ERTD2FFL601S	THERMISTER 600OHM
R9431	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R9432	ERJ8GCYJ103	M 10KOHM, J,1/8W
R9433	ERJ8GCYJ103	M 10KOHM, J,1/8W
R9434	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R9501	ERJ8GCYJ393	M 39KOHM, J,1/8W
R9502	ERJ8GCYJ104	M 100KOHM, J,1/8W
R9503	ERJ8GCYJ823	M 82KOHM, J,1/8W
R9504	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R9505	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R9506	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R9507	ERJ8GCYJ390	M 39OHM, J,1/8W
R9508	ERJ8GCYJ102	M 1KOHM, J,1/8W
R9509	ERJ8GCYJ103	M 10KOHM, J,1/8W
R9510	ERJ8GCYJ153	M 15KOHM, J,1/8W
R9512	ERO25CKF1102	M 11KOHM, F,1/4W
R9513	ERJ8GCYJ563	M 56KOHM, J,1/8W
R9514	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R9516	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R9517	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R9518	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R9519	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R9520	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R9522	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R9523	ERJ8GCYJ104	M 100KOHM, J,1/8W
R9524	ERJ8GCYJ391	M 390OHM, J,1/8W
R9525	ERJ8GCYJ470	M 47OHM, J,1/8W
R9526	ERG1SJ101P	M 100OHM, J, 1W
R9526	ERG1SJ101P	M 100OHM, J, 1W
R9527	ERJ8GCYJ100	M 10OHM, J,1/8W
R9528	ERDS1TJ471	C 470OHM, J,1/2W
R9529	ERJ8GCYJ271	M 270OHM, J,1/8W
R9530	ERTD2FFL601S	THERMISTER 600OHM
R9531	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R9532	ERJ8GCYJ103	M 10KOHM, J,1/8W
R9533	ERJ8GCYJ103	M 10KOHM, J,1/8W
R9534	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R9601	ERJ8GCYJ393	M 39KOHM, J,1/8W
R9602	ERJ8GCYJ104	M 100KOHM, J,1/8W
R9603	ERJ8GCYJ823	M 82KOHM, J,1/8W
R9604	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R9605	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R9606	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R9607	ERJ8GCYJ390	M 39OHM, J,1/8W
R9608	ERJ8GCYJ102	M 1KOHM, J,1/8W
R9609	ERJ8GCYJ103	M 10KOHM, J,1/8W
R9610	ERJ8GCYJ153	M 15KOHM, J,1/8W
R9612	ERO25CKF1102	M 11KOHM, F,1/4W
R9613	ERJ8GCYJ563	M 56KOHM, J,1/8W
R9614	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R9616	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R9617	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R9618	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R9619	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R9620	ERJ8GCYJ392	M 3.9KOHM, J,1/8W
R9622	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R9623	ERJ8GCYJ104	M 100KOHM, J,1/8W

Ref.No.	Part No.	Description
R9624	ERJ8GCYJ391	M 390OHM, J,1/8W
R9625	ERJ8GCYJ470	M 47OHM, J,1/8W
R9627	ERJ8GCYJ100	M 10OHM, J,1/8W
R9628	ERDS1TJ471	C 470OHM, J,1/2W
R9629	ERJ8GCYJ271	M 270OHM, J,1/8W
R9630	ERTD2FFL601S	THERMISTER 6000HM
R9631	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R9632	ERJ8GCYJ103	M 10KOHM, J,1/8W
R9633	ERJ8GCYJ103	M 10KOHM, J,1/8W
R9634	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
R9701	ERDS2TJ821	C 820OHM, J,1/4W
R9702	ERDS2TJ223	C 22KOHM, J,1/4W
R9703	ERDS2TJ183	C 18KOHM, J,1/4W
R9704	ERDS2TJ473	C 47KOHM, J,1/4W
R9705	ERDS2TJ473	C 47KOHM, J,1/4W
R9706	ERDS2TJ222	C 2.2KOHM, J,1/4W
R9707	ERDS2TJ471	C 470OHM, J,1/4W
R9708	ERDS2TJ101	C 100OHM, J,1/4W
R9709	ERDS1TJ560	C 56OHM, J,1/2W
R9710	ERDS2TJ271	C 270OHM, J,1/4W
R9711	ERDS2TJ333	C 33KOHM, J,1/4W
R9712	ERDS2TJ333	C 33KOHM, J,1/4W
R9713	ERDS2TJ122	C 1.2KOHM, J,1/4W
R9714	ERDS2TJ471	C 470OHM, J,1/4W
R9715	ERDS2TJ101	C 100OHM, J,1/4W
R9751	ERD25FJ6R8	C 6.8OHM, J,1/4W
R9752	ERDS2TJ181	C 180OHM, J,1/4W
R9753	ERD25FJ6R8	C 6.8OHM, J,1/4W
R9754	ERDS2TJ561	C 560OHM, J,1/4W
R9755	ERDS2TJ122	C 1.2KOHM, J,1/4W

CAPACITORS

Ref.No.	Part No.	Description
C1001	ECEA0GK101	E 100UF, 4V
C1002	ECUX1H471KBN	C 470PF, K, 50V
C1003	ECUX1H471KBN	C 470PF, K, 50V
C1048	ECEA1CU470	E 47UF, 16V
C1049	ECEA1HN010S	E 1UF, 50V
C1050	ECEA1EU221	E 220UF, 25V
C1051	ECEA1CN100S	E 10UF, 16V
C1052	ECEA1EU100	E 10UF, 25V
C1053	ECEA1HU2R2	E 2.2UF, 50V
C1054	ECQB1H473JF	P 0.047UF, J, 50V
C1055	ECEA1EU102	E 1000UF, 25V
C1056	ECEA1CU471	E 470UF, 16V
C1111	ECEA1HFS470	E 47UF, 50V
C1121	ECEA1HFS470	E 47UF, 50V
C2001	ECCF1H271J	C 270PF, J, 50V
C2002	ECKF1H103ZF	C 0.01UF, Z, 50V
C2003	ECEA2EU4R7	E 4.7UF, 250V
C2004	ECEA1EU330	E 33UF, 25V
C2005	ECCF1H820J	C 82PF, J, 50V
C2015	ECKD3D222JBN	C 2200PF, J, 2KV
C2101	ECCF1H271J	C 270PF, J, 50V
C2102	ECKF1H103ZF	C 0.01UF, Z, 50V
C2103	ECEA2EU4R7	E 4.7UF, 250V
C2105	ECCF1H820J	C 82PF, J, 50V
C2115	ECKD3D222JBN	C 2200PF, J, 2KV
C2201	ECCF1H271J	C 270PF, J, 50V
C2202	ECKF1H103ZF	C 0.01UF, Z, 50V
C2203	ECEA2EU4R7	E 4.7UF, 250V
C2205	ECCF1H820J	C 82PF, J, 50V
C2210	ECKD2H561KB2	C 560PF, K,500V
C2215	ECKD3D222JBN	C 2200PF, J, 2KV
C3301	ECUX1H103KBM	C 0.01UF, K, 50V
C3302	ECEA1CN101S	E 100UF, 16V
C3303	ECQV1H394JZ	P 0.39UF, J, 50V
C3304	ECEA1HN010S	E 1UF, 50V
C3305	ECUX1H103KBM	C 0.01UF, K, 50V
C3306	ECEA1CU101	E 100UF, 16V
C3307	ECUX1H150JCM	C 15PF, J, 50V
C3308	ECUX1H103KBM	C 0.01UF, K, 50V
C3309	ECUX1H103KBM	C 0.01UF, K, 50V
C3310	ECEA1CU101	E 100UF, 16V
C3311	ECUX1H103KBM	C 0.01UF, K, 50V
C3312	ECEA1CN101S	E 100UF, 16V
C3313	ECUX1H103KBM	C 0.01UF, K, 50V
C3314	ECEA1HU2R2	E 2.2UF, 50V
C3315	ECUX1H120JCM	C 12PF, J, 50V
C3316	ECUX1H103KBM	C 0.01UF, K, 50V
C3317	ECEA1VU221	E 220UF, 35V
C3318	ECEA1CU330	E 33UF, 16V
C3319	ECEA1CU330	E 33UF, 16V
C3320	ECEA1CN100S	E 10UF, 16V
C3321	ECUX1H103KBM	C 0.01UF, K, 50V
C3322	ECEA1CN101S	E 100UF, 16V
C3323	ECQV1H394JZ	P 0.39UF, J, 50V
C3324	ECEA1HN010S	E 1UF, 50V
C3325	ECUX1H103KBM	C 0.01UF, K, 50V
C3327	ECUX1H150JCM	C 15PF, J, 50V
C3328	ECUX1H103KBM	C 0.01UF, K, 50V
C3329	ECUX1H103KBM	C 0.01UF, K, 50V
C3330	ECEA1CU101	E 100UF, 16V
C3331	ECUX1H103KBM	C 0.01UF, K, 50V
C3332	ECEA1CN101S	E 100UF, 16V
C3333	ECUX1H103KBM	C 0.01UF, K, 50V
C3334	ECEA1HU2R2	E 2.2UF, 50V
C3335	ECUX1H120JCM	C 12PF, J, 50V
C3336	ECUX1H103KBM	C 0.01UF, K, 50V
C3337	ECEA1VU221	E 220UF, 35V
C3341	ECUX1H103KBM	C 0.01UF, K, 50V
C3342	ECEA1CN101S	E 100UF, 16V
C3343	ECQV1H394JZ	P 0.39UF, J, 50V
C3344	ECEA1HN010S	E 1UF, 50V
C3345	ECUX1H103KBM	C 0.01UF, K, 50V
C3347	ECUX1H150JCM	C 15PF, J, 50V
C3348	ECUX1H103KBM	C 0.01UF, K, 50V
C3349	ECUX1H103KBM	C 0.01UF, K, 50V
C3350	ECEA1CU101	E 100UF, 16V
C3351	ECUX1H103KBM	C 0.01UF, K, 50V
C3352	ECEA1CN101S	E 100UF, 16V
C3353	ECUX1H103KBM	C 0.01UF, K, 50V
C3354	ECEA1HU2R2	E 2.2UF, 50V
C3355	ECUX1H120JCM	C 12PF, J, 50V
C3356	ECUX1H103KBM	C 0.01UF, K, 50V
C3357	ECEA1VU221	E 220UF, 35V
C3358	ECEA1CU330	E 33UF, 16V

Ref.No.	Part No.	Description
C3359	ECEA1CU330	E 33UF, 16V
C3360	ECEA1CN100S	E 10UF, 16V
C3361	ECUX1H222KBM	C 2200PF, K, 50V
C3401	ECEA1CU100	E 10UF, 16V
C3402	ECEA1CU330	E 33UF, 16V
C3403	ECEA1CU100	E 10UF, 16V
C3404	ECUX1H103KBM	C 0.01UF, K, 50V
C3405	ECUX1H103KBM	C 0.01UF, K, 50V
C3406	ECEA1EN220S	E 22UF, 25V
C3407	ECEA1EN100S	E 10UF, 25V
C3408	ECEA1CU100	E 10UF, 16V
C3409	ECEA1HN3R3S	E 3.3UF, 50V
C3501	ECEA1VU221	E 220UF, 35V
C3502	ECEA1VU470	E 47UF, 35V
C3503	ECEA1CU101	E 100UF, 16V
C3504	ECEA1VU471	E 470UF, 35V
C3505	ECEA1EU101	E 100UF, 25V
C3506	ECEA1VU101	E 100UF, 35V
C3507	ECEA1HN010S	E 1UF, 50V
C3508	ECEA1HN010S	E 1UF, 50V
C3509	ECUX1H103KBM	C 0.01UF, K, 50V
C3510	ECEA1HN010S	E 1UF, 50V
C3511	ECEA1HN010S	E 1UF, 50V
C3512	ECEA1HN010S	E 1UF, 50V
C3513	ECEA1CN330S	E 33UF, 16V
C3514	ECEA1CN220S	E 22UF, 16V
C3515	ECEA1CN330S	E 33UF, 16V
C3516	ECEA1CN220S	E 22UF, 16V
C3517	ECKD3A562KBN	C 5600PF, K, 1KV
C3519	ECUX1H682KBM	C 6800PF, K, 50V
C3520	ECEA1HN4R7S	E 4.7UF, 50V
C3552	ECEA1HU470	E 47UF, 50V
C3553	ECEA1CU470	E 47UF, 16V
C3554	ECEA1CU470	E 47UF, 16V
C3555	ECEA1CU101	E 100UF, 16V
C3556	ECEA1CU470	E 47UF, 16V
C3557	ECUX1H330JCM	C 33PF, J, 50V
C3558	ECUX1H681JCM	C 680PF, J, 50V
C3559	ECQP1122JZ	P 1200PF, J, 100V
C3560	ECEA1CU470	E 47UF, 16V
C3561	ECEA1CU470	E 47UF, 16V
C3562	ECQV1H104JZ	P 0.1UF, J, 50V
C3563	ECQV1H334JZ	P 0.33UF, J, 50V
C3564	ECUX1H221JCM	C 220PF, J, 50V
C3565	ECEA1HN010S	E 1UF, 50V
C3566	ECUX1H103KBM	C 0.01UF, K, 50V
C3567	ECEA1HN100S	E 10UF, 50V
C3568	ECUX1H391JCM	C 390PF, J, 50V
C4001	ECEA1CU470	E 47UF, 16V
C4002	ECUX1H180JCM	C 18PF, J, 50V
C4003	ECEA1CU470	E 47UF, 16V
C4004	ECEA1CU470	E 47UF, 16V
C4005	ECEA1HN010S	E 1UF, 50V
C4006	ECEA1CKA100	E 10UF, 16V
C4007	ECUX1H103KBM	C 0.01UF, K, 50V
C4008	ECEA1HKA010	E 1UF, 50V
C4009	ECEA1HKA010	E 1UF, 50V
C4010	ECUX1H103KBM	C 0.01UF, K, 50V

Ref.No.	Part No.	Description
C4011	ECUX1H472KBM	C 4700PF, K, 50V
C4012	ECQB1H103KF	P 0.01UF, K, 50V
C4013	ECEA0JN330S	E 33UF, 6.3V
C4014	ECEA1CU100	E 10UF, 16V
C4015	ECUX1H330JCM	C 33PF, J, 50V
C4016	ECUX1H680JCM	C 68PF, J, 50V
C4018	TCRHA045G11	TRIMMER
C4019	ECEA1CU100	E 10UF, 16V
C4020	ECEA1CU330	E 33UF, 16V
C4021	ECUX1H680JCM	C 68PF, J, 50V
C4022	ECUX1H090DCM	C 9PF, 50V
C4023	ECUX1H330JCM	C 33PF, J, 50V
C4024	ECUX1H121JCM	C 120PF, J, 50V
C4025	ECUX1H181JCM	C 180PF, J, 50V
C4026	ECEA1CU470	E 47UF, 16V
C4027	ECEA1CU470	E 47UF, 16V
C4028	ECEA1HU010	E 1UF, 50V
C4029	ECUX1H103KBM	C 0.01UF, K, 50V
C4030	ECEA1CU100	E 10UF, 16V
C4031	ECEA1HU010	E 1UF, 50V
C4032	ECUX1H220JCM	C 22PF, J, 50V
C4071	ECEA1CU470	E 47UF, 16V
C4072	ECEA1CN470S	E 47UF, 16V
C4073	ECEA1CN470S	E 47UF, 16V
C4101	ECEA1CU470	E 47UF, 16V
C4104	ECEA1CN100S	E 10UF, 16V
C4105	ECEA1CU470	E 47UF, 16V
C4106	ECEA1CU470	E 47UF, 16V
C4107	ECUX1H470JCM	C 47PF, J, 50V
C4108	ECEA1CU101	E 100UF, 16V
C4109	ECEA1CU100	E 10UF, 16V
C4110	ECEA1CU220	E 22UF, 16V
C4112	ECEA1CU100	E 10UF, 16V
C4113	ECUX1H101JCM	C 100PF, J, 50V
C4114	ECEA1CU100	E 10UF, 16V
C4301	ECEA1HUR33	E 0.33UF, 50V
C4302	ECEA1CU100	E 10UF, 16V
C4303	ECEA1HU4R7	E 4.7UF, 50V
C4304	ECEA1CU101	E 100UF, 16V
C4305	ECEA1CU470	E 47UF, 16V
C4306	ECUX1H120JCM	C 12PF, J, 50V
C4307	ECUX1H180JCM	C 18PF, J, 50V
C4308	ECUX1H103KBM	C 0.01UF, K, 50V
C4401	ECUX1H100CCM	C 10PF, 50V
C4402	ECUX1H100CCM	C 10PF, 50V
C4403	ECUX1H560JCM	C 56PF, J, 50V
C4404	ECEA1CN470S	E 47UF, 16V
C4405	ECUX1H470JCM	C 47PF, J, 50V
C4406	ECUX1H121JCM	C 120PF, J, 50V
C4407	ECUX1H390JCM	C 39PF, J, 50V
C4408	ECEA1CU100	E 10UF, 16V
C4409	ECUX1H390JCM	C 39PF, J, 50V
C4410	ECEA1CU100	E 10UF, 16V
C4411	ECEA1CU100	E 10UF, 16V
C4414	ECUX1H270JCM	C 27PF, J, 50V
C4415	ECUX1H470JCM	C 47PF, J, 50V
C4416	ECUX1H470JCM	C 47PF, J, 50V
C4417	ECUX1H560JCM	C 56PF, J, 50V
C4418	ECUX1H750JCM	C 75PF, J, 50V

Ref.No.	Part No.	Description
C4601	ECUX1H330JCM	C 33PF, J, 50V
C4602	ECUX1H103KBM	C 0.01UF, K, 50V
C4603	ECUX1H820JCM	C 82PF, J, 50V
C4604	ECUX1H103KBM	C 0.01UF, K, 50V
C4631	ECUX1H103KBM	C 0.01UF, K, 50V
C4632	ECUX1H103KBM	C 0.01UF, K, 50V
C4633	ECEA1CU101	E 100UF, 16V
C4641	ECUX1H330JCM	C 33PF, J, 50V
C4642	ECUX1H221JCM	C 220PF, J, 50V
C4661	ECUX1H393KBM	C 0.039UF, K, 50V
C4662	ECUX1H103KBM	C 0.01UF, K, 50V
C4663	ECEA1CU101	E 100UF, 16V
C4664	ECUX1H103KBM	C 0.01UF, K, 50V
C4701	ECEA1HNR47S	E 0.47UF, 50V
C4702	ECUX1H560JCM	C 56PF, J, 50V
C4703	ECEA1HKA010	E 1UF, 50V
C4704	ECEA1HKA2R2	E 2.2UF, 50V
C4705	ECQV1H104JZ	P 0.1UF, J, 50V
C4706	ECQV1H104JZ	P 0.1UF, J, 50V
C4707	ECUX1H103KBM	C 0.01UF, K, 50V
C4708	ECUX1H103KBM	C 0.01UF, K, 50V
C4709	ECUX1H103KBM	C 0.01UF, K, 50V
C4710	ECQV1H104JZ	P 0.1UF, J, 50V
C4711	ECQV1H104JZ	P 0.1UF, J, 50V
C4712	ECQV1H104JZ	P 0.1UF, J, 50V
C4713	ECEA1CKA101	E 100UF, 16V
C4714	ECEA1CKA100	E 10UF, 16V
C4715	ECUX1H103KBM	C 0.01UF, K, 50V
C4716	ECEA1CU471	E 470UF, 16V
C4717	ECUX1H393KBM	C 0.039UF, K, 50V
C4751	ECUX1H331JCM	C 330PF, J, 50V
C4752	ECUX1H821JCM	C 820PF, J, 50V
C4753	ECUX1H561JCM	C 560PF, J, 50V
C4754	ECQV1H104JZ	P 0.1UF, J, 50V
C4756	ECQB1H333KF	P 0.033UF, K, 50V
C4757	ECEA1HFS3R3	E 3.3UF, 50V
C4758	ECUX1H471JCM	C 470PF, J, 50V
C4759	ECEA1CU101	E 100UF, 16V
C4760	ECEA1HN2R2S	E 2.2UF, 50V
C4761	ECUX1H102JCH	C 1000PF, J, 50V
C4801	ECUX1H103KBM	C 0.01UF, K, 50V
C4802	ECUX1H103KBM	C 0.01UF, K, 50V
C4803	ECQV1H563JZ	P 0.056UF, J, 50V
C4804	ECQB1H103KF	P 0.01UF, K, 50V
C4805	ECUX1H680JCM	C 68PF, J, 50V
C4806	ECQB1H563JF	P 0.056UF, J, 50V
C4807	ECUX1H220JCM	C 22PF, J, 50V
C4808	ECUX1H330JCM	C 33PF, J, 50V
C4809	ECCF1H300J	C 30PF, J, 50V
C4810	ECUX1H150JCM	C 15PF, J, 50V
C4811	ECUX1H390JCM	C 39PF, J, 50V
C4812	ECUX1H103KBM	C 0.01UF, K, 50V
C4813	ECQV1H563JZ	P 0.056UF, J, 50V
C4814	ECQB1H103JF	P 0.01UF, 50V
C4815	ECEA1HN2R2S	E 2.2UF, 50V
C4816	ECEA1HUR47	E 0.47UF, 50V
C4817	ECUX1H103KBM	C 0.01UF, K, 50V
C4818	ECUX1H103KBM	C 0.01UF, K, 50V
C4819	ECUX1H103KBM	C 0.01UF, K, 50V

Ref.No.	Part No.	Description
C4820	ECUX1H103KBM	C 0.01UF, K, 50V
C4821	ECUX1H150JCM	C 15PF, J, 50V
C4822	ECUX1H680JCM	C 68PF, J, 50V
C4823	ECUX1H330JCM	C 33PF, J, 50V
C4824	ECUX1H121JCM	C 120PF, J, 50V
C4825	ECUX1H180JCM	C 18PF, J, 50V
C4826	ECUX1H330JCM	C 33PF, J, 50V
C4827	ECUX1H680JCM	C 68PF, J, 50V
C4828	ECUX1H181JCM	C 180PF, J, 50V
C4829	ECUX1H121JCM	C 120PF, J, 50V
C4830	ECUX1H121JCM	C 120PF, J, 50V
C4831	ECUX1H103KBM	C 0.01UF, K, 50V
C4832	ECUX1H103KBM	C 0.01UF, K, 50V
C4833	ECEA1CU100	E 10UF, 16V
C4870	ECEA1CU101	E 100UF, 16V
C4871	ECUX1H330JCM	C 33PF, J, 50V
C4881	ECUX1H330JCM	C 33PF, J, 50V
C4891	ECUX1H330JCM	C 33PF, J, 50V
C4901	ECEA1EU101	E 100UF, 25V
C4902	ECEA1CU471	E 470UF, 16V
C5001	ECQB1H473KF	P 0.047UF, K, 50V
C5002	ECQB1H103KF	P 0.01UF, K, 50V
C5003	ECEA1HU010	E 1UF, 50V
C5004	ECQB1H103KF	P 0.01UF, K, 50V
C5005	ECCF1H101J	C 100PF, J, 50V
C5006	ECEA1HU2R2	E 2.2UF, 50V
C5007	ECEA1CU101	E 100UF, 16V
C5008	ECQB1H562JF	P 5600PF, J, 50V
C5009	ECQB1H472JF	P 4700PF, J, 50V
C5010	ECUX1H103KBM	C 0.01UF, K, 50V
C5011	ECEA1AU470	E 47UF, 10V
C5012	ECQP1H222JZ	P 2200PF, J, 50V
C5013	ECQP1471JZ	P 470PF, J, 100V
C5014	ECUX1H103KBM	C 0.01UF, K, 50V
C5015	ECQK1102JZ	P 1000PF, J, 100V
C5016	ECEA1CU101	E 100UF, 16V
C5017	ECQB1H273KF	P 0.027UF, K, 50V
C5018	ECEA1CU101	E 100UF, 16V
C5020	ECEA1CU220	E 22UF, 16V
C5021	ECEA1CU101	E 100UF, 16V
C5022	ECUX1H103KBM	C 0.01UF, K, 50V
C5023	ECEA1VU470	E 47UF, 35V
C5024	ECEA1HU101	E 100UF, 50V
C5025	ECUX1H103KBM	C 0.01UF, K, 50V
C5026	ECUX1H103KBM	C 0.01UF, K, 50V
C5028	ECUX1H103KBM	C 0.01UF, K, 50V
C5029	ECUX1H101JCM	C 100PF, J, 50V
C5030	ECEA1VU331	E 330UF, 35V
C5031	ECEA1HU010	E 1UF, 50V
C5032	ECQB1H104KF	P 0.1UF, K, 50V
C5033	ECWH12H103JS	P 0.01UF, 1.2KV
C5034	ECWH12H122JR	P 1200PF, J, 1.2KV
C5035	ECWH12H472JS	P 4700PF, J, 1.2KV
C5036	ECWH12H472JS	P 4700PF, J, 1.2KV
C5037	ECWH12H103JS	P 0.01UF, 1.2KV
C5038	ECQK1472JZ	P 4700PF, J, 100V
C5039	ECQK1472JZ	P 4700PF, J, 100V
C5041	ECKD3A472JBN	C 4700PF, J, 1KV

Ref.No.	Part No.	Description
C5042	ECQE2106KF	P 10UF, K,250V
C5043	ECQE2106KF	P 10UF, K,250V
C5044	ECEA0JU222	E 2200UF, 6.3V
C5045	ECQE2105KS	P 1UF, K,250V
C5046	ECOS2EG101D	E 100UF, 250V
C5047	ECUX1H101JCM	C 100PF, J, 50V
C5048	ECUX1H271JCM	C 270PF, J, 50V
C5049	ECEA1AU470	E 47UF, 10V
C5050	ECEA1CU470	E 47UF, 16V
C5051	ECEA2CU101	E 100UF, 160V
C5052	ECQB1H333KF	P 0.033UF, K, 50V
C5053	ECUX1H222KBM	C 2200PF, K, 50V
C5054	ECEA1HU010	E 1UF, 50V
C5055	ECEA1CU330	E 33UF, 16V
C5056	ECEA1CU100	E 10UF, 16V
C5057	ECUX1H101JCM	C 100PF, J, 50V
C5058	ECUX1H101JCM	C 100PF, J, 50V
C5059	ECEA1CU100	E 10UF, 16V
C5060	ECEA1CN220S	E 22UF, 16V
C5061	ECEA1HU4R7	E 4.7UF, 50V
C5062	ECEA1CU220	E 22UF, 16V
C5063	ECEA1CN470S	E 47UF, 16V
C5064	ECEA1CU100	E 10UF, 16V
C5065	ECUX1H102KBM	C 1000PF, K, 50V
C5066	ECEA1CU101	E 100UF, 16V
C5067	ECEA1CN220S	E 22UF, 16V
C5068	ECQB1H333KF	P 0.033UF, K, 50V
C5069	ECEA1CU220	E 22UF, 16V
C5070	ECEA1CU330	E 33UF, 16V
C5071	ECEA0JU101	E 100UF, 6.3V
C5072	ECUX1H103KBM	C 0.01UF, K, 50V
C5073	ECKD3D101KBN	C 100PF, K, 2KV
C5074	ECEA1CN470S	E 47UF, 16V
C5075	ECEA1CN470S	E 47UF, 16V
C5076	ECEA1HN100S	E 10UF, 50V
C5077	ECEA1HU100	E 10UF, 50V
C5078	ECQB1H274KF	P 0.27UF, K, 50V
C5079	ECEA1CU470	E 47UF, 16V
C5080	ECEA1CU331	E 330UF, 16V
C5081	ECQM1H154KV	P 0.15UF, K, 50V
C5082	ECQB1H152JF	P 1500PF, J, 50V
C5083	ECEA1VU101	E 100UF, 35V
C5084	ECEA1CU470	E 47UF, 16V
C5501	ECUX1H152KBM	C 1500PF, K, 50V
C5502	ECEA1HN010S	E 1UF, 50V
C5503	ECEA1HU010	E 1UF, 50V
C5505	ECEA50ZR68	E 0.68UF, 50V
C5506	ECEA1CN100S	E 10UF, 16V
C5507	ECEA1EU331	E 330UF, 25V
C5508	ECQB1H683JF	P 0.068UF, J, 50V
C5509	ECSF25E1V	T 1UF, 25V
C5510	ECUX1H222KBM	C 2200PF, K, 50V
C5511	ECEA1AU470	E 47UF, 10V
C5512	ECEA1CU331	E 330UF, 16V
C5513	ECQB1H334JF	P 0.33UF, J, 50V
C5514	ECEA1AU330	E 33UF, 10V
C5515	ECEA1EU101	E 100UF, 25V
C5516	ECEA1EU470	E 47UF, 25V
C5517	ECQB1H102JF	P 1000PF, 50V

Ref.No.	Part No.	Description
C5518	ECEA2CU100	E 10UF, 160V
C5519	ECQE2104KS	P 0.1UF, K,250V
C5520	ECEA2CU100	E 10UF, 160V
C5521	ECEA2CU4R7	E 4.7UF, 160V
C5522	ECUX1H102KBM	C 1000PF, K, 50V
C5523	ECUX1H102KBM	C 1000PF, K, 50V
C5524	ECQM2153JZ	
C5525	ECEA1EN4R7S	E 4.7UF, 25V
C5526	ECEA1CU220	E 22UF, 16V
C5527	ECEA1CU100	E 10UF, 16V
C5528	ECUX1H101JCM	C 100PF, J, 50V
C5529	ECUX1H101JCM	C 100PF, J, 50V
C5530	ECEA1CU100	E 10UF, 16V
C5531	ECEA1CN100S	E 10UF, 16V
C5532	ECEA1HU4R7	E 4.7UF, 50V
C5533	ECEA1CU220	E 22UF, 16V
C5534	ECEA1CN470S	E 47UF, 16V
C5535	ECEA1CU100	E 10UF, 16V
C5536	ECQB1H104JF	P 0.1UF, 50V
C5537	ECEA1CU101	E 100UF, 16V
C5538	ECEA1CU470	E 47UF, 16V
C5539	ECEA1CU220	E 22UF, 16V
C5540	ECUX1H471KBM	C 470PF, K, 50V
C5541	ECQB1H222KF	P 2200PF, K, 50V
C5542	ECQB1H473JF	P 0.047UF, J, 50V
C5543	ECEA1CKA470	E 47UF, 16V
C5544	ECEA1AKA221	E 220UF, 10V
C5545	ECEA1CKA470	E 47UF, 16V
C5546	ECEA1CU100	E 10UF, 16V
C5547	ECUX1H102KBM	C 1000PF, K, 50V
C6003	ECEA1HU010	E 1UF, 50V
⚠ C6004	ECWH15H682JD	P 6800PF,J,1.5KV
⚠ C6005	ECEA1CU100	E 10UF, 16V
⚠ C6006	ECEA1HU3R3	E 3.3UF, 50V
⚠ C6007	ECEA1HU0R1	E 0.1UF, 50V
C6008	ECEA1HU010	E 1UF, 50V
⚠ C6009	ECWH15H682JD	P 6800PF,J,1.5KV
C6010	ECQE12333KZ	P 0.033UF,K,1.2KV
⚠ C6011	ECWH15H472JD	P 4700PF,J,1.5KV
⚠ C6012	ECWH15H272JD	P 2700PF,J,1.5KV
C6013	ECEA1CU471	E 470UF, 16V
C6014	ECEA1CN100S	E 10UF, 16V
C6016	ECEA1HU010	E 1UF, 50V
C6017	ECEA1CU100	E 10UF, 16V
C6018	ECQM1474JZ	P 0.47UF, J,100V
C6019	ECUX1H103KBM	C 0.01UF, K, 50V
C6020	ECQK1392JZ	P 3900PF, J,100V
C6021	ECEA25V10T	
C6027	ECES2CG101D	E 100UF, 160V
C6032	ECKD2H101KB2	C 100PF, K,500V
C6033	ECEA1CU101	E 100UF, 16V
C6034	ECEA1HN3R3S	E 3.3UF, 50V
C6035	ECQB1H102JF	P 1000PF, 50V
C6036	ECQE2475KS	P 4.7UF, K,250V
C6037	ECEA2CU3R3	E 3.3UF, 160V
C6038	ECEA1CU101	E 100UF, 16V
C6039	ECEA1VU470	E 47UF, 35V
C6040	ECEA1EU470	E 47UF, 25V
C6041	ECEA1CU101	E 100UF, 16V

	Ref.No.	Part No.	Description
	C6042	ECQV1H105JZ	P 1UF, J, 50V
	C6043	ECEA1CU470	E 47UF, 16V
	C6047	ECQM2222KZ	P 2200PF, K, 200V
⚠	C6048	ECEA1CU100	E 10UF, 16V
	C6051	ECEA1HU010	E 1UF, 50V
	C6054	ECEA2CU3R3	E 3.3UF, 160V
	C6055	ECEA1CU101	E 100UF, 16V
	C6056	ECEA1CU100	E 10UF, 16V
	C6057	ECKF1H102KB	C 1000PF, K, 50V
⚠	C6058	ECEA1HU3R3	E 3.3UF, 50V
⚠	C6059	ECEA1HU010	E 1UF, 50V
	C6060	ECEA1CN100S	E 10UF, 16V
	C6061	ECEA1CN100S	E 10UF, 16V
	C6062	ECEA1HU010	E 1UF, 50V
	C6063	ECEA1CU101	E 100UF, 16V
	C6065	ECQM1154KZ	P 0.15UF, K, 100V
	C6066	ECKF1H101KB	C 100PF, K, 50V
	C6067	ECEA1HU470	E 47UF, 50V
	C6070	ECUX1H103KBM	C 0.01UF, K, 50V
	C6071	ECUX1H103KBM	C 0.01UF, K, 50V
	C6072	ECQB1H104JF	P 0.1UF, 50V
	C6073	ECQB1H104JF	P 0.1UF, 50V
	C6077	ECUX1H101JCM	C 100PF, J, 50V
	C6078	ECUX1H101JCM	C 100PF, J, 50V
	C6079	ECUX1H101JCM	C 100PF, J, 50V
	C6080	ECUX1H103KBM	C 0.01UF, K, 50V
	C6081	ECEA1HU010	E 1UF, 50V
⚠	C6091	ECEA1CU101	E 100UF, 16V
⚠	C6092	ECEA1EU101	E 100UF, 25V
	C7001	ECEA1EGE101	E 100UF, 25V
	C7002	ECEA1HGE220	E 22UF, 50V
	C7003	ECEA1EGE101	E 100UF, 25V
	C7004	ECEA1CN220S	E 22UF, 16V
	C7005	ECEA1CGE101	E 100UF, 16V
	C7006	ECEA1AN220S	E 22UF, 10V
	C7007	ECEA1EGE101	E 100UF, 25V
	C7008	ECEA1HGE220	E 22UF, 50V
	C7009	ECEA1VGE101	E 100UF, 35V
	C7010	ECEA1HGE220	E 22UF, 50V
	C7011	ECEA1VGE101	E 100UF, 35V
	C7012	ECEA1HGE220	E 22UF, 50V
	C7013	ECEA1CGE221	E 220UF, 16V
	C7014	ECEA1CGE221	E 220UF, 16V
	C7015	ECEA1HGE220	E 22UF, 50V
	C7016	ECEA1HGE010	E 1UF, 50V
	C7017	ECEA1HU010	E 1UF, 50V
	C7018	ECEA1CU100	E 10UF, 16V
	C7019	ECEA1CU100	E 10UF, 16V
	C7020	ECEA1CU100	E 10UF, 16V
	C7021	ECEA1CU100	E 10UF, 16V
	C7022	ECEA1CU100	E 10UF, 16V
	C7031	ECUX1H223KBM	C 0.022UF, K, 50V
	C7032	ECUX1H102KBM	C 1000PF, K, 50V
	C7033	ECUX1H102KBM	C 1000PF, K, 50V
	C7034	ECUX1H102KBM	C 1000PF, K, 50V
	C7035	ECUX1H102KBM	C 1000PF, K, 50V
	C7036	ECUX1H102KBM	C 1000PF, K, 50V
	C7037	ECUX1H102KBM	C 1000PF, K, 50V

Ref.No.	Part No.	Description
C7038	ECUX1H102KBM	C 1000PF, K, 50V
C7039	ECUX1H102KBM	C 1000PF, K, 50V
C7040	ECUX1H102KBM	C 1000PF, K, 50V
C7051	ECEA1AU470	E 47UF, 10V
C7052	ECEA1HU010	E 1UF, 50V
C7053	ECUX1H103KBM	C 0.01UF, K, 50V
C7054	ECQB1H104JF	P 0.1UF, 50V
C7055	ECEA1HU4R7	E 4.7UF, 50V
C7056	ECEA1AU470	E 47UF, 10V
C7057	ECEA1HU010	E 1UF, 50V
C7058	ECEA1HU010	E 1UF, 50V
C7059	ECEA1HU010	E 1UF, 50V
C7060	ECEA1AU220	E 22UF, 10V
C7061	ECQB1H103JF	P 0.01UF, 50V
C7062	ECUX1H151JCM	C 150PF, J, 50V
C7065	ECUX1H103KBM	C 0.01UF, K, 50V
C7071	ECUX1H223KBM	C 0.022UF, K, 50V
C7072	ECUX1H223KBM	C 0.022UF, K, 50V
C7073	ECUX1H223KBM	C 0.022UF, K, 50V
C7074	ECUX1H223KBM	C 0.022UF, K, 50V
C7075	ECUX1H223KBM	C 0.022UF, K, 50V
C7076	ECUX1H223KBM	C 0.022UF, K, 50V
C7077	ECUX1H223KBM	C 0.022UF, K, 50V
C7078	ECUX1H223KBM	C 0.022UF, K, 50V
C7079	ECUX1H223KBM	C 0.022UF, K, 50V
C7080	ECUX1H223KBM	C 0.022UF, K, 50V
C7081	ECUX1H223KBM	C 0.022UF, K, 50V
C7082	ECUX1H223KBM	C 0.022UF, K, 50V
C7083	ECUX1H223KBM	C 0.022UF, K, 50V
C7084	ECUX1H223KBM	C 0.022UF, K, 50V
C7085	ECUX1H223KBM	C 0.022UF, K, 50V
C7086	ECUX1H223KBM	C 0.022UF, K, 50V
C7087	ECUX1H223KBM	C 0.022UF, K, 50V
C7088	ECUX1H223KBM	C 0.022UF, K, 50V
C7089	ECUX1H223KBM	C 0.022UF, K, 50V
C7090	ECUX1H223KBM	C 0.022UF, K, 50V
C7091	ECUX1H223KBM	C 0.022UF, K, 50V
C7092	ECUX1H223KBM	C 0.022UF, K, 50V
C7093	ECUX1H223KBM	C 0.022UF, K, 50V
C7094	ECUX1H223KBM	C 0.022UF, K, 50V
C7095	ECUX1H223KBM	C 0.022UF, K, 50V
C7100	ECUX1H103KBM	C 0.01UF, K, 50V
C7101	ECEA1CU100	E 10UF, 16V
C7102	ECEA1CU100	E 10UF, 16V
C7103	ECEA1CU100	E 10UF, 16V
C7104	ECEA1CU470	E 47UF, 16V
C7105	ECEA1CU220	E 22UF, 16V
C7106	ECEA1HU4R7	E 4.7UF, 50V
C7107	ECEA1CU220	E 22UF, 16V
C7108	ECEA1CU100	E 10UF, 16V
C7109	ECEA1CU100	E 10UF, 16V
C7110	ECEA1CU100	E 10UF, 16V
C7111	ECEA1EN100S	E 10UF, 25V
C7112	ECEA1CU220	E 22UF, 16V
C7113	ECEA1HU4R7	E 4.7UF, 50V
C7114	ECEA1EN100S	E 10UF, 25V
C7115	ECEA1CU100	E 10UF, 16V
C7116	ECEA1CU100	E 10UF, 16V
C7117	ECEA1CU100	E 10UF, 16V

Ref.No.	Part No.	Description
C7118	ECEA1CU470	E 47UF, 16V
C7119	ECEA1CU220	E 22UF, 16V
C7120	ECEA1HU4R7	E 4.7UF, 50V
C7121	ECEA1CU470	E 47UF, 16V
C7122	ECEA1CU100	E 10UF, 16V
C7124	ECEA1CU100	E 10UF, 16V
C7125	ECEA1CU470	E 47UF, 16V
C7126	ECEA1CU220	E 22UF, 16V
C7127	ECEA1HU4R7	E 4.7UF, 50V
C7129	ECQB1H473JF	P 0.047UF, J, 50V
C7130	ECUX1H223KBM	C 0.022UF, K, 50V
C7131	ECQB1H102JF	P 1000PF, 50V
C7133	ECQB1H102JF	P 1000PF, 50V
C7135	ECQB1H102JF	P 1000PF, 50V
C7138	ECEA1CU101	E 100UF, 16V
C7139	ECEA1CN101S	E 100UF, 16V
C7140	ECEA1CU101	E 100UF, 16V
C7141	ECEA1CN101S	E 100UF, 16V
C7142	ECUX1H103KBM	C 0.01UF, K, 50V
C7201	ECEA1CU100	E 10UF, 16V
C7202	ECEA1CU100	E 10UF, 16V
C7203	ECEA1CU100	E 10UF, 16V
C7204	ECEA1CU470	E 47UF, 16V
C7205	ECEA1CU220	E 22UF, 16V
C7206	ECEA1HU4R7	E 4.7UF, 50V
C7207	ECEA1CU220	E 22UF, 16V
C7208	ECEA1CU100	E 10UF, 16V
C7209	ECEA1CU100	E 10UF, 16V
C7210	ECEA1CU100	E 10UF, 16V
C7211	ECEA1CU470	E 47UF, 16V
C7212	ECEA1CU220	E 22UF, 16V
C7213	ECEA1HU4R7	E 4.7UF, 50V
C7214	ECEA1EN100S	E 10UF, 25V
C7215	ECEA1CU100	E 10UF, 16V
C7216	ECEA1CU100	E 10UF, 16V
C7217	ECEA1CU100	E 10UF, 16V
C7218	ECEA1CN100S	E 10UF, 16V
C7219	ECEA1CU220	E 22UF, 16V
C7220	ECEA1HU4R7	E 4.7UF, 50V
C7221	ECEA1CU470	E 47UF, 16V
C7222	ECQB1H473JF	P 0.047UF, J, 50V
C7223	ECUX1H223KBM	C 0.022UF, K, 50V
C7224	ECQB1H102JF	P 1000PF, 50V
C7226	ECEA1CU101	E 100UF, 16V
C7227	ECEA1CN101S	E 100UF, 16V
C7228	ECEA1CU101	E 100UF, 16V
C7229	ECEA1CN101S	E 100UF, 16V
C7230	ECEA1CU101	E 100UF, 16V
C7231	ECEA1CN101S	E 100UF, 16V
C7251	ECEA1CU100	E 10UF, 16V
C7252	ECEA1CU100	E 10UF, 16V
C7253	ECEA1CU100	E 10UF, 16V
C7254	ECEA1CU470	E 47UF, 16V
C7255	ECEA1CU220	E 22UF, 16V
C7256	ECEA1HU4R7	E 4.7UF, 50V
C7257	ECEA1CU220	E 22UF, 16V
C7258	ECEA1CU100	E 10UF, 16V
C7259	ECEA1CU100	E 10UF, 16V
C7260	ECEA1CU100	E 10UF, 16V
C7261	ECEA1CU470	E 47UF, 16V
C7262	ECEA1CU220	E 22UF, 16V
C7263	ECEA1HU4R7	E 4.7UF, 50V
C7264	ECEA1EN100S	E 10UF, 25V
C7265	ECEA1CU100	E 10UF, 16V
C7266	ECEA1CU100	E 10UF, 16V
C7267	ECEA1CU100	E 10UF, 16V
C7268	ECEA1CU100	E 10UF, 16V
C7269	ECEA1CU220	E 22UF, 16V
C7270	ECEA1HU4R7	E 4.7UF, 50V
C7271	ECEA1CU470	E 47UF, 16V
C7272	ECQB1H473JF	P 0.047UF, J, 50V
C7273	ECUX1H223KBM	C 0.022UF, K, 50V
C7274	ECQB1H102JF	P 1000PF, 50V
C7401	ECEA1VU101	E 100UF, 35V
C7402	ECEA1EU470	E 47UF, 25V
C7403	ECUX1H102KBM	C 1000PF, K, 50V
C7404	ECEA1VU101	E 100UF, 35V
C7405	ECEA1EU470	E 47UF, 25V
C7406	ECUX1H102KBM	C 1000PF, K, 50V
C7407	ECEA1EU470	E 47UF, 25V
C7408	ECEA1VU101	E 100UF, 35V
C7409	ECUX1H102KBM	C 1000PF, K, 50V
C7410	ECEA1VU101	E 100UF, 35V
C7411	ECEA1EU470	E 47UF, 25V
C7412	ECUX1H102KBM	C 1000PF, K, 50V
C7413	ECEA1VU101	E 100UF, 35V
C7414	ECEA1AU470	E 47UF, 10V
C7415	ECUX1H102KBM	C 1000PF, K, 50V
C7416	ECEA1AU101	E 100UF, 10V
C7417	ECEA1AU470	E 47UF, 10V
C7418	ECUX1H102KBM	C 1000PF, K, 50V
C7419	ECEA1VU101	E 100UF, 35V
C7420	ECEA1EU470	E 47UF, 25V
C7421	ECUX1H102KBM	C 1000PF, K, 50V
C7422	ECEA1VU101	E 100UF, 35V
C7423	ECEA1EU470	E 47UF, 25V
C7424	ECUX1H102KBM	C 1000PF, K, 50V
C8011	ECEA1CU100	E 10UF, 16V
C8021	ECQM4822KZ	P 8200PF, K,400V
C8022	ECQM4223JZ	P 0.022UF, J,400V
C8025	ECEA1EU101	E 100UF, 25V
C8026	ECUX1H103KBM	C 0.01UF, K, 50V
C8031	ECEA1EU101	E 100UF, 25V
C8032	ECUX1H103KBM	C 0.01UF, K, 50V
C8033	ECEA1EU101	E 100UF, 25V
C8034	ECUX1H103KBM	C 0.01UF, K, 50V
C8035	ECEA1HU470	E 47UF, 50V
C8036	ECEA1HU470	E 47UF, 50V
C8037	ECQM4152JZ	P 1500PF, J,400V
⚠ C9001	ECQU2A334MP	P 0.33UF, M,250V
⚠ C9002	ECQU2A334MP	P 0.33UF, M,250V
⚠ C9005	ECKDNS102KB	C 1000PF, K,
⚠ C9006	ECKDNS102KB	C 1000PF, K,
⚠ C9007	ECKDNS471MBX	C 470PF, M,
⚠ C9008	ECKDNS471MBX	C 470PF, M,
⚠ C9009	ECKD2H472PU	C 4700PF, P,500V

	Ref.No.	Part No.	Description
⚠	C9010	ECKD2H472PU	C 4700PF, P,500V
⚠	C9011	ECKD2H472PU	C 4700PF, P,500V
⚠	C9012	ECKD2H472PU	C 4700PF, P,500V
⚠	C9013	ECEA2WU3R3	E 3.3UF, 450V
⚠	C9051	ECOS2GA331EA	E 330UF, 400V
⚠	C9052	ECOS2GA331EA	E 330UF, 400V
	C9055	ECKD2H472KB2	C 4700PF, K,500V
	C9056	ECEA2WU3R3	E 3.3UF, 450V
	C9057	ECKD2H221KB2	C 220PF, K,500V
	C9058	ECKD2H103KB2	C 0.01UF, K,500V
	C9059	ECKD2H101KB2	C 100PF, K,500V
	C9060	ECKD3A471KBN	C 470PF, K, 1KV
	C9061	ECEA1HFS470	E 47UF, 50V
	C9062	ECQV1H333JZ	P 0.033UF, J, 50V
	C9063	ECKD2H101KB2	C 100PF, K,500V
	C9064	ECEA1HU102	E 1000UF, 50V
	C9065	ECKF1H103MD	C 0.01UF, M, 50V
	C9066	ECQB1H104JF	P 0.1UF, 50V
	C9067	ECEA1CU100	E 10UF, 16V
	C9068	ECQB1H104JF	P 0.1UF, 50V
	C9070	ECEA1EU470	E 47UF, 25V
	C9071	ECQB1H104JF	P 0.1UF, 50V
	C9072	ECQB1H103KF	P 0.01UF, K, 50V
	C9101	ECQM4223KZ	P 0.022UF, K,400V
	C9102	ECEA1CGE221	E 220UF, 16V
	C9103	ECEA1CGE101	E 100UF, 16V
	C9104	ECKD2H102KB2	C 1000PF, K,500V
	C9105	ECEA2GU470	E 47UF, 400V
⚠	C9106	ECKD3A101KBN	C 100PF, K, 1KV
	C9107	ECKD3D101KBN	C 100PF, K, 2KV
⚠	C9108	ECKD2H682KB2	C 6800PF, K,500V
	C9109	ECEA1AGE331	E 330UF, 10V
	C9110	ECKF1H682KB	C 6800PF, K, 50V
⚠	C9111	ECKDNS102KB	C 1000PF, K,
	C9112	ECKD2H101KB2	C 100PF, K,500V
	C9113	ECKF1H101KB	C 100PF, K, 50V
	C9151	ECEA1CU100	E 10UF, 16V
⚠	C9153	ECKD3A101KBN	C 100PF, K, 1KV
⚠	C9154	ECKD3A101KBN	C 100PF, K, 1KV
	C9155	ECES2CG471M	E 470UF, 160V
	C9156	ECKD2H472PU7	C 4700PF,5 00V
	C9157	ECKD2H101KB2	C 100PF, K,500V
	C9158	ECEA1EU101	E 100UF, 25V
⚠	C9159	ECKD3A101KBN	C 100PF, K, 1KV
	C9160	ECEA2VU100	E 10UF, 350V
	C9201	ECQM4223KZ	P 0.022UF, K,400V
	C9202	ECEA1CGE221	E 220UF, 16V
	C9203	ECEA1CGE101	E 100UF, 16V
	C9204	ECKD2H102KB2	C 1000PF, K,500V
	C9205	ECEA2GU470	E 47UF, 400V
⚠	C9206	ECKD3A101KBN	C 100PF, K, 1KV
	C9207	ECKD3D101KBN	C 100PF, K, 2KV
⚠	C9208	ECQE10103KV	P 0.01UF, K, 1KV
	C9209	ECEA1AGE331	E 330UF, 10V
	C9210	ECKF1H682KB	C 6800PF, K, 50V
⚠	C9211	ECKDNS102KB	C 1000PF, K,
	C9212	ECKD2H101KB2	C 100PF, K,500V
	C9213	ECKF1H101KB	C 100PF, K, 50V
	C9251	ECEA1CU100	E 10UF, 16V
	C9253	ECKF1H102KB	C 1000PF, K, 50V
⚠	C9254	ECKD2H101KB2	C 100PF, K,500V
	C9255	ECEA1EU332	E 3300UF, 25V
	C9256	ECKF1H472KB	C 4700PF, K, 50V
	C9257	ECEA1EU102	E 1000UF, 25V
	C9258	ECKF1H472KB	C 4700PF, K, 50V
	C9259	ECKD2H101KB2	C 100PF, K,500V
	C9260	ECEA1EU332	E 3300UF, 25V
	C9261	ECKF1H472KB	C 4700PF, K, 50V
	C9263	ECKD2H101KB2	C 100PF, K,500V
	C9264	ECEA1CGE332	E 3300UF, 16V
	C9265	ECKF1H472KB	C 4700PF, K, 50V
	C9266	ECKD2H101KB2	C 100PF, K,500V
	C9267	ECEA1EGE222	E 2200UF, 25V
	C9268	ECKF1H472KB	C 4700PF, K, 50V
	C9269	ECKD2H101KB2	C 100PF, K,500V
	C9270	ECEA1VGE332	E 3300UF, 35V
	C9271	ECKF1H472KB	C 4700PF, K, 50V
	C9274	ECKD2H101KB2	C 100PF, K,500V
	C9275	ECEA1VGE222	E 2200UF, 35V
	C9276	ECKF1H472KB	C 4700PF, K, 50V
	C9301	ECQM4223KZ	P 0.022UF, K,400V
	C9302	ECEA1CGE221	E 220UF, 16V
	C9303	ECEA1CGE101	E 100UF, 16V
	C9304	ECKD2H102KB2	C 1000PF, K,500V
	C9305	ECEA2GU470	E 47UF, 400V
⚠	C9306	ECKD3A101KBN	C 100PF, K, 1KV
	C9307	ECKD3D101KBN	C 100PF, K, 2KV
⚠	C9308	ECKD2H682KB2	C 6800PF, K,500V
	C9309	ECEA1AGE331	E 330UF, 10V
	C9310	ECKF1H682KB	C 6800PF, K, 50V
⚠	C9311	ECKDNS102KB	C 1000PF, K,
	C9312	ECKD2H101KB2	C 100PF, K,500V
	C9313	ECKF1H101KB	C 100PF, K, 50V
	C9351	ECEA1CU100	E 10UF, 16V
⚠	C9353	ECKD3A101KBN	C 100PF, K, 1KV
⚠	C9354	ECEA2EU101W	E 100UF, 250V
⚠	C9355	ECKD2H472PU7	C 4700PF,5 00V
	C9356	ECEA2EU470	E 47UF, 250V
	C9357	ECKD2H472PU7	C 4700PF,5 00V
⚠	C9361	ECKD2H101KB2	C 100PF, K,500V
	C9362	ECEA2CU221	E 220UF, 160V
	C9363	ECKD2H472PU7	C 4700PF,5 00V
	C9364	ECKD3A101KBN	C 100PF, K, 1KV
	C9365	ECEA2AU221	E 220UF, 100V
	C9366	ECKD2H472PU7	C 4700PF,5 00V
	C9367	ECKD2H391KB2	C 390PF, K,500V
	C9368	ECEA1CGE222	E 2200UF, 16V
	C9369	ECKF1H472KB	C 4700PF, K, 50V
	C9370	ECKD2H391KB2	C 390PF, K,500V
	C9371	ECEA1CU222	E 2200UF, 16V
	C9372	ECKF1H472KB	C 4700PF, K, 50V
	C9401	ECUX1H221JCM	C 220PF, J, 50V
	C9402	ECQB1H153JF	P 0.015UF, J, 50V
	C9403	ECEA1HKG3R3	E 3.3UF, 50V
	C9404	ECCF1H681J	C 680PF, J, 50V
	C9405	ECQP1H152GZ	P 1500PF, G, 50V
	C9406	ECUX1H472KBM	C 4700PF, K, 50V

Ref.No.	Part No.	Description
C9407	ECUX1H103KBM	C 0.01UF, K, 50V
C9408	ECEA1CKA101	E 100UF, 16V
C9409	ECEA1CKG100	E 10UF, 16V
C9410	ECUX1H331JCM	C 330PF, J, 50V
C9411	ECEA1CKG220	E 22UF, 16V
C9412	ECUX1H103KBM	C 0.01UF, K, 50V
C9413	ECUX1E473KBM	C 47000PF, K, 25V
C9414	ECUX1E473KBM	C 47000PF, K, 25V
C9415	ECUX1H102JCM	C 1000PF, J, 50V
C9416	ECEA1CKG100	E 10UF, 16V
C9417	ECUX1E223KBM	C 22000PF, K, 25V
C9418	ECUX1E333KBM	C 0.033UF, K, 25V
C9419	ECUX1H102JCM	C 1000PF, J, 50V
C9420	ECUX1H222KBM	C 2200PF, K, 50V
C9421	ECUX1E473KBM	C 47000PF, K, 25V
C9501	ECUX1H221JCM	C 220PF, J, 50V
C9502	ECQB1H153JF	P 0.015UF, J, 50V
C9503	ECEA1HKG3R3	E 3.3UF, 50V
C9504	ECCF1H681J	C 680PF, J, 50V
C9505	ECQP1H152GZ	P 1500PF, G, 50V
C9506	ECUX1H472KBM	C 4700PF, K, 50V
C9507	ECUX1H103KBM	C 0.01UF, K, 50V
C9508	ECEA1CKA101	E 100UF, 16V
C9509	ECEA1CKG100	E 10UF, 16V
C9510	ECUX1H331JCM	C 330PF, J, 50V
C9511	ECEA1CKG220	E 22UF, 16V
C9512	ECUX1H103KBM	C 0.01UF, K, 50V
C9513	ECUX1E473KBM	C 47000PF, K, 25V
C9514	ECUX1E473KBM	C 47000PF, K, 25V
C9515	ECUX1H102JCM	C 1000PF, J, 50V
C9516	ECEA1CKG100	E 10UF, 16V
C9517	ECUX1E223KBM	C 22000PF, K, 25V
C9518	ECUX1E333KBM	C 0.033UF, K, 25V
C9519	ECUX1H102JCM	C 1000PF, J, 50V
C9520	ECUX1H222KBM	C 2200PF, K, 50V
C9521	ECUX1E473KBM	C 47000PF, K, 25V
C9601	ECUX1H221JCM	C 220PF, J, 50V
C9602	ECQB1H153JF	P 0.015UF, J, 50V
C9603	ECEA1HKG3R3	E 3.3UF, 50V
C9604	ECCF1H681J	C 680PF, J, 50V
C9605	ECQP1H152GZ	P 1500PF, G, 50V
C9606	ECUX1H472KBM	C 4700PF, K, 50V
C9607	ECUX1H103KBM	C 0.01UF, K, 50V
C9608	ECEA1CKA101	E 100UF, 16V
C9609	ECEA1CKG100	E 10UF, 16V
C9610	ECUX1H331JCM	C 330PF, J, 50V
C9611	ECEA1CKG220	E 22UF, 16V
C9612	ECUX1H103KBM	C 0.01UF, K, 50V
C9613	ECUX1E473KBM	C 47000PF, K, 25V
C9614	ECUX1E473KBM	C 47000PF, K, 25V
C9615	ECUX1H102JCM	C 1000PF, J, 50V
C9616	ECEA1CKG100	E 10UF, 16V
C9617	ECUX1E223KBM	C 22000PF, K, 25V
C9618	ECUX1E333KBM	C 0.033UF, K, 25V
C9619	ECUX1H102JCM	C 1000PF, J, 50V
C9620	ECUX1H222KBM	C 2200PF, K, 50V
C9621	ECUX1E473KBM	C 47000PF, K, 25V
C9701	ECEA1EU470	E 47UF, 25V
C9702	ECEA1CU470	E 47UF, 16V
C9703	ECKF1H472KB	C 4700PF, K, 50V
C9751	ECKD2H102KB2	C 1000PF, K, 500V
C9752	ECEA1CU101	E 100UF, 16V
C9753	ECEA1AU470	E 47UF, 10V
C9754	ECKF1H102KB	C 1000PF, K, 50V
C9755	ECQB1H103KF	P 0.01UF, K, 50V

COILS

Ref.No.	Part No.	Description
L2001	TLQ047K126	PEAKING COIL 4.7U
⚠ L2002	TLQ101K126	PEAKING COIL 100U
⚠ L2003	TLQ056K126	PEAKING COIL 5.6U
L2004	TLQ010K126	PEAKING COIL 1U
L2101	TLQ047K126	PEAKING COIL 4.7U
⚠ L2102	TLQ101K126	PEAKING COIL 100U
⚠ L2103	TLQ056K126	PEAKING COIL 5.6U
L2104	TLQ010K126	PEAKING COIL 1U
L2201	TLQ047K126	PEAKING COIL 4.7U
⚠ L2202	TLQ101K126	PEAKING COIL 100U
⚠ L2203	TLQ056K126	PEAKING COIL 5.6U
L2204	TLQ010K126	PEAKING COIL 1U
L3001	TLTAR100K1R4	PEAKING COIL
L3301	TLQ100K126	PEAKING COIL 10U
L3302	TLQ100K126	PEAKING COIL 10U
L3303	TLQ100K126	PEAKING COIL 10U
L3304	TLQ100K126	PEAKING COIL 10U
L3305	TLQ100K126	PEAKING COIL 10U
L3306	TLQ100K126	PEAKING COIL 10U
L3307	TLTAR100K1R4	PEAKING COIL
L3308	TLQ470K126	PEAKING COIL 47U
L3309	TLQ470K126	PEAKING COIL 47U
L4001	ELB4K066B	COIL
L4002	TLT047K991K	PEAKING COIL 4.7U
L4003	TLT390K991K	PEAKING COIL 39U
L4004	TLT390K991K	PEAKING COIL 39U
L4005	TLT100K991K	PEAKING COIL 10U
L4006	TLT390K991K	PEAKING COIL 39U
L4007	TLT150K991K	PEAKING COIL 15U
L4101	TLK156059E	TRAP COIL 4.43MHZ
L4103	ELT10Z398	COIL
L4401	TLT820J991K	PEAKING COIL 82U
L4402	TLT082J991K	PEAKING COIL
L4403	ELB4M085B	COIL
L4404	TLT271J991K	PEAKING COIL2 70U
L4405	TLT220J991K	PEAKING COIL 22U
L4406	TLT100J991K	PEAKING COIL 10U
L4407	TLTABT100K	PEAKING COIL 10U
L4408	TLT082J991K	PEAKING COIL
L4409	TLT150J991K	PEAKING COIL 15U
L4410	TLT082J991K	PEAKING COIL
L4601	TLT390J991K	PEAKING COIL 39U
L4602	TLT681J991K	PEAKING COIL
L4603	TLT681J991K	PEAKING COIL
L4604	TLT681J991K	PEAKING COIL
L4605	TLK150898E1	DELAY LINE
L4641	EIK7ES007B	COIL
L4801	EIK7ES008B	COIL
L4802	TLT470J991K	PEAKING COIL 47U
L4803	EIK7ES011B	COIL

	Ref.No.	Part No.	Description
	L4804	EFDEN645A11G	DELAY LINE
	L4805	TLTACC100K	PEAKING COIL 10U
	L4806	EIK7ES009B	COIL
	L4807	EIK7ES009B	COIL
	L4871	TLT047K991K	PEAKING COIL 4.7U
	L4881	TLT047K991K	PEAKING COIL 4.7U
	L4901	TLTAR100K1R4	PEAKING COIL
	L5001	TLTAR100K1R4	PEAKING COIL
⚠	L5002	TLTAR100K1R4	PEAKING COIL
	L5003	TLTAR100K1R4	PEAKING COIL
	L5004	TLP408	FERRITE CORE
	L5005	TLP408	FERRITE CORE
	L5006	TLP408	FERRITE CORE
	L5007	ETS39K77V	TRANS
	L5008	TLT123J119C	PEAKING COIL
	L5009	ELH5L754	LINEARITY COIL
	L5010	ELH5L754	LINEARITY COIL
⚠	L6001	ETS29K362V	CHOKE TRANS
	L6002	TLH15907	CHOKE COIL
	L6003	TLH15907	CHOKE COIL
⚠	L6004	ETS39K261V	SWITCHING TRANS
	L6005	TLTAR100K1R4	PEAKING COIL
	L6006	TLQ100K126	PEAKING COIL 10U
	L7001	TLTAR100K1R4	PEAKING COIL
	L7002	TLTAR100K1R4	PEAKING COIL
	L7003	TLTAR100K1R4	PEAKING COIL
	L7004	TLTAR100K1R4	PEAKING COIL
	L7005	TLTAR100K1R4	PEAKING COIL
	L7006	TLTAR100K1R4	PEAKING COIL
	L7007	TLTAR100K1R4	PEAKING COIL
	L7401	TLP408	FERRITE CORE
	L7402	TLP408	FERRITE CORE
	L7403	TLP408	FERRITE CORE
	L7404	TLP408	FERRITE CORE
	L7405	TLP408	FERRITE CORE
	L7406	TLP408	FERRITE CORE
	L7407	TLP408	FERRITE CORE
	L7408	TLP408	FERRITE CORE
	L7409	ETQ13K11AY	CHOKE COIL
	L7410	ETQ13K11AY	CHOKE COIL
	L8001	ELH18F733	COIL
	L8002	ELH16F764	COIL
	L8003	TLTAR100K1R4	PEAKING COIL
	L8004	TLTAR100K1R4	PEAKING COIL
⚠	L9001	TLP13517V	LINE FILTER
⚠	L9002	TLP13517V	LINE FILTER
⚠	L9004	TLP13516V	LINE FILTER
⚠	L9005	TLP13517V	LINE FILTER
⚠	L9006	TLP13517V	LINE FILTER
	L9051	TLT102K119C	PEAKING COIL 1M
	L9052	TSK1002-1	COIL
	L9053	TSK1002-1	COIL
	L9054	TSK1002-1	COIL
	L9101	TLQ120K236	PEAKING COIL
	L9102	TLQ120K236	PEAKING COIL
	L9103	TSK1002-1	COIL
⚠	L9104	TSK1002-1	COIL
	L9151	TSK1002-1	COIL

	Ref.No.	Part No.	Description
⚠	L9152	TSK1002-1	COIL
⚠	L9153	TSK1002-1	COIL
⚠	L9154	TSK1002-1	COIL
⚠	L9155	TSK1002-1	COIL
	L9201	TLQ120K236	PEAKING COIL
	L9202	TLQ120K236	PEAKING COIL
	L9203	TSK1002-1	COIL
⚠	L9204	TSK1002-1	COIL
⚠	L9251	TSK1002-1	COIL
⚠	L9252	TSK1002-1	COIL
⚠	L9253	TLT300K119C	PEAKING COIL
⚠	L9254	TSK1002-1	COIL
	L9255	TSK1002-1	COIL
	L9256	TSK1002-1	COIL
	L9257	TSK1002-1	COIL
	L9258	TSK1002-1	COIL
	L9259	TSK1002-1	COIL
	L9260	TSK1002-1	COIL
	L9261	TSK1002-1	COIL
	L9263	TSK1002-1	COIL
	L9264	TSK1002-1	COIL
	L9301	TLQ120K236	PEAKING COIL
	L9302	TLQ120K236	PEAKING COIL
	L9303	TSK1002-1	COIL
	L9304	TSK1002-1	COIL
⚠	L9351	TSK1002-1	COIL
⚠	L9352	TSK1002-1	COIL
⚠	L9354	TSK1002-1	COIL
⚠	L9355	TSK1002-1	COIL
⚠	L9356	TSK1002-1	COIL
	L9357	TSK1002-1	COIL
	L9358	TSK1002-1	COIL
	L9359	TSK1002-1	COIL
	L9360	TSK1002-1	COIL
	L9361	TSK1002-1	COIL
⚠	L9362	TLT300K119C	PEAKING COIL
	L9401	TSK1002-1	COIL
	L9501	TSK1002-1	COIL
	L9601	TSK1002-1	COIL
	L9701	TSK1002-1	COIL

TRANSFORMERS

	T5001	TLH15408	H.DRIVE TRANS
⚠	T5002	ETS35K438V	CHOKE TRANS
	T6001	TLH15408	H.DRIVE TRANS
⚠	T6003	TLF14445B	FRYBACK TRANS
⚠	T9051	ETE19K31AY	TRANS.
⚠	T9101	ETS42K278V	CONVERTER TRANS
	T9102	TLP15724	CHOPPER TRANS.
⚠	T9201	ETS42K640V	CONVERTER TRANS
	T9202	TLP15724	CHOPPER TRANS.
⚠	T9301	ETS42K641V	CONVERTER TRANS
	T9302	TLP15724	CHOPPER TRANS.

DIODES

Ref.No.	Part No.	Description
D1001	LN66AS	LED
D1002	LN66AS	LED
D1011	MA151WK	DIODE
D1012	MA151WK	DIODE
D1021	MA704WK	DIODE
D1022	MA704WK	DIODE
D1023	MA704WK	DIODE
D1024	MA704WK	DIODE
D1025	MA704WK	DIODE
D1026	MA704WK	DIODE
D1111	MA4051M	ZENER DIODE 5.0
D1201	MA4120M	ZENER DIODE 11.
D2001	MA162	DIODE
D2002	MA162	DIODE
D2003	TVSEU01N	DIODE
D2005	MA165	DIODE
D2006	MA4150M	ZENER DIODE 14.
D2007	MA29W-A	DIODE
D2101	MA162	DIODE
D2102	MA162	DIODE
D2103	TVSEU01N	DIODE
D2104	MA165	DIODE
D2105	MA165	DIODE
D2201	MA162	DIODE
D2202	MA162	DIODE
D2203	TVSEU01N	DIODE
D2204	MA165	DIODE
D2205	MA165	DIODE
D3301	MA151K	DIODE
D3302	MA151K	DIODE
D3303	MA151WK	DIODE
D3304	MA151K	DIODE
D3305	MA151K	DIODE
D3307	MA3051M	ZENER DIODE
D3311	MA151K	DIODE
D3312	MA151K	DIODE
D3321	MA151K	DIODE
D3322	MA151K	DIODE
D3323	MA151WK	DIODE
D3324	MA151K	DIODE
D3341	MA151K	DIODE
D3342	MA151K	DIODE
D3343	MA151WK	DIODE
D3344	MA151K	DIODE
D3345	MA153A	DIODE
D3347	MA3051M	ZENER DIODE
D3361	MA151K	DIODE
D3362	MA151K	DIODE
D3363	MA4130M	ZENER DIODE
D3364	MA4130M	ZENER DIODE
D3365	MA151K	DIODE
D3366	MA151K	DIODE
D3367	MA151K	DIODE
D3501	MA151K	DIODE
D3502	MA151K	DIODE
D3504	MA151K	DIODE
D3552	MA151K	DIODE
D3553	MA151K	DIODE
D3554	MA151K	DIODE
D3555	MA4047H	ZENER DIODE 4.7
D3557	MA151K	DIODE
D3558	MA151K	DIODE
D3560	MA151K	DIODE
D3561	MA151K	DIODE
D3562	MA151K	DIODE
D3563	MA151K	DIODE
D3564	MA3051M	ZENER DIODE
D4001	MA4051	ZENER DIODE 4.8
D4101	MA151K	DIODE
D4102	MA151K	DIODE
D4103	MA411OM	ZENER DIODE 10.
D4104	MA151K	DIODE
D4105	MA151K	DIODE
D4106	MA4068M	ZENER DIODE 6.6
D4107	MA4043L	ZENER DIODE 4.0
D4108	MA151K	DIODE
D4109	MA151K	DIODE
D4401	MA150	DIODE
D4403	MA151K	DIODE
D4601	MA151K	DIODE
D4602	MA151K	DIODE
D4661	MA411OM	ZENER DIODE 10.
D4701	MA170	DIODE
D4751	MA151K	DIODE
D4753	MA4091M	ZENER DIODE 8.8
D4801	MA151K	DIODE
D5001	MA4056M	ZENER DIODE 5.4
D5002	MA151K	DIODE
D5003	MA151K	DIODE
D5004	MA27TA	DIODE
D5005	MA151K	DIODE
D5006	MA151WA	DIODE
D5007	MA151WA	DIODE
D5008	MA1100H	ZENER DIODE 10.
D5009	MA151WK	DIODE
D5010	MA151WK	DIODE
D5012	MA151K	DIODE
D5016	MA151K	DIODE
D5017	TVSRF1	DIODE
D5018	TVSRF1	DIODE
D5019	MA151K	DIODE
D5020	MA4030L	ZENER DIODE 2.8
D5021	MA151K	DIODE
D5022	MA151K	DIODE
D5023	ERD07-15	DIODE
D5024	ERE41-15J	DIODE
D5026	MA4051M	ZENER DIODE 5.0
D5027	MA152K	DIODE
D5028	TVSRH1S	DIODE
D5029	MA152K	DIODE
D5030	MA151K	DIODE
D5031	TVSRF1	DIODE
D5032	MA152K	DIODE
D5033	MA151WK	DIODE
D5034	LN28RP	LED (RED)

	Ref.No.	Part No.	Description
	D5035	MA152K	DIODE
	D5037	MA151K	DIODE
	D5038	MA151WK	DIODE
	D5039	MA152K	DIODE
	D5040	MA151K	DIODE
	D5041	MA4300M	ZENER DIODE 29.
	D5042	MA27TA	DIODE
	D5043	MA27TA	DIODE
	D5044	MA27TA	DIODE
	D5045	MA151K	DIODE
	D5046	MA151K	DIODE
	D5046	OA90G	DIODE
	D5047	TVSQB124J	ZENER DIODE
	D5502	MA151K	DIODE
	D5503	MA151K	DIODE
	D5504	MA151K	DIODE
	D5505	MA151K	DIODE
	D5506	MA4056L	ZENER DIODE 5.3
	D5507	MA151K	DIODE
	D5508	MA151K	DIODE
	D5509	MA151K	DIODE
	D5510	MA4039L	ZENER DIODE
	D5511	MA4051M	ZENER DIODE 5.0
	D5512	TVSQA216M1	ZENER DIODE
	D5513	TVSQA217A	ZENER DIODE
	D5514	TVSRU2	DIODE
	D5515	MA27WA	DIODE
	D5517	MA4120M	ZENER DIODE 11.
	D5518	MA27TA	DIODE
	D5519	TVSRD5.1EB2	ZENER DIODE
	D5520	MA27TA	DIODE
	D6001	TVSRF1	DIODE
	D6002	MA151K	DIODE
⚠	D6005	RS4FSLF-K2	DIODE
	D6006	ERB06-15	DIODE
⚠	D6007	LN28RP	LED (RED)
⚠	D6008	MA1062M	ZENER DIODE 6.0
⚠	D6009	MA151K	DIODE
⚠	D6010	MA151WK	DIODE
	D6012	MA151A	DIODE
	D6016	MA151K	DIODE
	D6017	MA151K	DIODE
	D6018	MA151K	DIODE
	D6019	MA1240H	ZENER DIODE 24.
	D6022	MA151K	DIODE
⚠	D6023	MA1051M	ZENER DIODE 5.0
	D6024	TVSRU2	DIODE
	D6025	TVSRU2	DIODE
	D6026	MA151K	DIODE
	D6028	MA151K	DIODE
⚠	D6029	MA1062M	ZENER DIODE 6.0
⚠	D6031	MA1110H	ZENER DIODE 11.
	D6032	MA151K	DIODE
	D6033	MA151K	DIODE
	D6034	MA151K	DIODE
⚠	D6036	TVSRU1	DIODE
	D6037	MA1030L	ZENER DIODE 2.8
⚠	D6039	MA1360	ZENER DIODE 34.
	D6040	MA151K	DIODE

	Ref.No.	Part No.	Description
	D6041	MA151K	DIODE
	D6042	MA151K	DIODE
	D6043	MA151K	DIODE
	D6044	MA151K	DIODE
	D6045	TVSRU2	DIODE
	D6046	MA151K	DIODE
	D6047	MA151K	DIODE
	D6048	MA151K	DIODE
	D6049	MA151K	DIODE
	D6050	MA151K	DIODE
	D6051	MA151K	DIODE
	D6052	MA152K	DIODE
	D6053	MA152K	DIODE
	D6054	MA151K	DIODE
	D6055	MA151K	DIODE
	D6056	MA151K	DIODE
	D6057	MA151K	DIODE
	D6058	MA151WK	DIODE
	D6059	MA151K	DIODE
⚠	D6061	MA1100M	ZENER DIODE 9.7
	D6062	MA151K	DIODE
	D7007	MA165	DIODE
	D7008	MA165	DIODE
	D7009	MA165	DIODE
	D7010	MA165	DIODE
	D7012	MA4150H	ZENER DIODE
	D7013	MA4130M	ZENER DIODE
	D7014	MA4130M	ZENER DIODE
	D7015	ERDS2TC0	C 00HM, 1/4W
	D7065	MA4047H	ZENER DIODE 4.7
	D8001	MA152K	DIODE
	D8002	MA152K	DIODE
	D8003	MA152K	DIODE
	D8004	MA152K	DIODE
	D8005	MA4051H	ZENER DIODE 5.1
	D8006	MA152K	DIODE
	D8007	TVSRU2	DIODE
⚠	D9001	ERZC10DK431	VARISTOR
⚠	D9002	D4SB80Z	DIODE
⚠	D9003	TVSRM1C	DIODE
	D9004	MA4300M	ZENER DIODE 29.
⚠	D9005	ON3105	PHOTO ISOLATOR
⚠	D9051	ERC12-08	DIODE
	D9052	TVSES1C	DIODE
	D9053	ERA22-04	DIODE
	D9054	ERA22-04	DIODE
	D9055	MA2100B	ZENER DIODE 9.9
	D9056	MA182	DIODE
⚠	D9057	ON3105	PHOTO ISOLATOR
	D9060	MA4120M	ZENER DIODE 11.
	D9061	MA4091M	ZENER DIODE 8.8
	D9062	MA4120M	ZENER DIODE 11.
	D9091	LN117WP23	LED
	D9101	MA165	DIODE
	D9102	MA165	DIODE
	D9103	MA165	DIODE
	D9104	MA4150M	ZENER DIODE 14.
	D9105	MA179	DIODE
	D9106	MA179	DIODE
	D9107	TVSB4402	DIODE

	Ref.No.	Part No.	Description
	D9108	TVSB4402	DIODE
⚠	D9109	TVSRU1C	DIODE
⚠	D9110	ON3105-Q	PHOTO ISOLATOR
	D9151	MA4051L	ZENER DIODE 4.8
⚠	D9152	TVSRG4K2	DIODE
⚠	D9153	TVSRG4K2	DIODE
	D9154	MA182	DIODE
	D9155	MA4120M	ZENER DIODE 11.
⚠	D9156	TVSRU1C	DIODE
	D9201	MA165	DIODE
	D9203	MA165	DIODE
	D9204	MA4150M	ZENER DIODE 14.
	D9205	MA179	DIODE
	D9206	MA179	DIODE
	D9207	TVSB4402	DIODE
	D9208	TVSB4402	DIODE
⚠	D9209	TVSC2406M	DIODE
⚠	D9210	ON3105-Q	PHOTO ISOLATOR
⚠	D9211	ON3105	PHOTO ISOLATOR
	D9212	MA4062M	ZENER DIODE 6.0
⚠	D9213	TVSC2406M	DIODE
	D9251	MA4051L	ZENER DIODE 4.8
	D9252	MA4120M	ZENER DIODE 11.
⚠	D9253	MA649	DIODE
	D9254	TVSRG4YK2	DIODE
	D9255	MA649	DIODE
	D9256	TVSRG4YK2	DIODE
	~~D9257~~	~~MA649~~	~~DIODE~~
	D9258	TVSRG4K2	DIODE
	D9301	MA165	DIODE
	D9302	MA165	DIODE
	D9303	MA165	DIODE
	D9304	MA4150M	ZENER DIODE 14.
	D9305	ERA22-02	DIODE
	D9306	MA179	DIODE
	D9307	TVSB4402	DIODE
	D9308	TVSB4402	DIODE
	D9309	TVSRU1C	DIODE
⚠	D9310	ON3105-Q	PHOTO ISOLATOR
	D9351	MA4051L	ZENER DIODE 4.8
	D9352	MA4120M	ZENER DIODE 11.
⚠	D9353	RG4CLF-K2	DIODE
⚠	D9355	RG4ALF-K2	DIODE
	D9356	TVSC2408M	DIODE
	D9357	TVSC84009	DIODE
	D9358	TVSC84009	DIODE
	D9401	MA4150M	ZENER DIODE 14.
	D9402	MA151K	DIODE
	D9403	MA4100M	ZENER DIODE 9.7
	D9404	MA151K	DIODE
	D9405	MA151K	DIODE
	D9406	MA151WK	DIODE
	D9408	MA4062M	ZENER DIODE 6.0
	D9409	MA28WA	DIODE
	D9501	MA4150M	ZENER DIODE 14.
	D9502	MA151K	DIODE
	D9503	MA4100M	ZENER DIODE 9.7
	D9504	MA151K	DIODE
	D9505	MA151K	DIODE
	D9506	MA151WK	DIODE
	D9508	MA4062M	ZENER DIODE 6.0
	D9509	MA28WA	DIODE
	D9601	MA4150M	ZENER DIODE 14.
	D9602	MA151K	DIODE
	D9603	MA4100M	ZENER DIODE 9.7
	D9604	MA151K	DIODE
	D9605	MA151K	DIODE
	D9606	MA151WK	DIODE
	D9608	MA4062M	ZENER DIODE 6.0
	D9609	MA28WA	DIODE
	D9701	MA167	DIODE
	D9702	MA167	DIODE
	D9703	MA167	DIODE
	D9704	MA167	DIODE
	D9705	MA167	DIODE
	D9706	MA167	DIODE
	D9707	MA167	DIODE
	D9751	ERA22-04	DIODE
	D9752	MA4180M	ZENER DIODE 17.

I.C

	IC1001	M50467-058FP	
	IC1013	AN5265	LINEAR IC
	IC3301	AN610P	LINEAR IC
	IC3302	AN610P	LINEAR IC
	IC3303	AN610P	LINEAR IC
	IC3304	M51387P	IC
	IC3501	AN78M24	LINEAR IC
⚠	IC3502	AN78M12	LINEAR IC
⚠	IC3503	AN78N05	LINEAR IC
	IC3504	TC4049BP	MOS DEGITAL IC
	IC3505	TC4053BP	MOS DEGITAL IC
	IC3506	TC4053BP	MOS DEGITAL IC
	IC3507	TC4023BP	MOS DEGITAL IC
	IC3508	TC4082BP	MOS DEGITAL IC
	IC3509	TC4053BP	MOS DEGITAL IC
	IC3510	TC4024BP	MOS DEGITAL IC
	IC3511	TC4040BP	MOS DEGETAL IC
	IC3512	TC4078BP	MOS DEGITAL IC
	IC3513	TVSTC4528BP	C-MOS LOGIC IC
	IC3514	TVSTC74HC03P	IC
	IC3515	TVSTC4528BP	C-MOS LOGIC IC
	IC4001	TA8728P	LINEAR IC
	IC4002	TL8803P	ROGIC IC (CCD)
	IC4101	LA7222-TV	LINEAR IC
	IC4301	CX20125	LINEAR IC
	IC4401	PA0030	LINEAR IC
	IC4601	LA7222-TV	LINEAR IC
	IC4602	LA7222-TV	LINEAR IC
	IC4701	TA8653N	LINEAR IC
⚠	IC4901	AN7812	LINEAR IC
	IC5001	AN7812	LINEAR IC
	IC5002	AN5790N	LINEAR IC
	IC5003	TC4053BP	MOS DEGITAL IC
	IC5004	TC4052BP	MOS DEGITAL IC
	IC5006	TVSTC4528BP	C-MOS LOGIC IC

	Ref.No.	Part No.	Description
	IC5007	M51132L	INTEGRATED CIRCUI
	IC5008	UPC4558C	IC
	IC5501	AN5436N	LINEAR IC
	IC5502	TVSTC4528BP	C-MOS LOGIC IC
	IC5503	UPC4558C	IC
	IC5504	M51132L	INTEGRATED CIRCUI
	IC5505	UPC4558C	IC
	IC5506	UPC4558C	IC
	IC5507	UPC4558C	IC
⚠	IC6001	UPC4558C	IC
⚠	IC6002	TVSTC4528BP	C-MOS LOGIC IC
	IC7001	AN7812	LINEAR IC
	IC7002	AN79M12	LINEAR IC
	IC7003	AN7805	LINEAR IC
	IC7004	AN7805	LINEAR IC
	IC7005	CXA1268P	LINEAR IC
	IC7006	MN4066B	MOS LOGIC IC
	IC7007	TVSS4LS138N	IC (DECODER)
	IC7008	DAC-8800FP	IC
	IC7009	DAC-8800FP	IC
	IC7010	DAC-8800FP	IC
	IC7011	DAC-8800FP	IC
	IC7012	DAC-8800FP	IC
	IC7013	DAC-8800FP	IC
	IC7014	AN7805	LINEAR IC
	IC7015	AN7905T	LINEAR IC
⚠	IC7016	AN7824	LINEAR IC
⚠	IC7017	AN7924T	LINEAR IC
	IC7019	AN78L04	LINEAR IC
	IC7020	UPC4558C	IC
	IC7022	AN6914	LINEAR IC
	IC7023	M51132L	INTEGRATED CIRCUI
	IC7024	M51132L	INTEGRATED CIRCUI
	IC7025	M51132L	INTEGRATED CIRCUI
	IC7026	M51132L	INTEGRATED CIRCUI
	IC7027	AN6554	LINEAR IC
	IC7028	AN6554	LINEAR IC
	IC7029	AN6554	LINEAR IC
	IC7030	TL084CN	IC
	IC7031	M51132L	INTEGRATED CIRCUI
	IC7032	M51132L	INTEGRATED CIRCUI
	IC7033	M51132L	INTEGRATED CIRCUI
	IC7034	M51132L	INTEGRATED CIRCUI
	IC7035	M51132L	INTEGRATED CIRCUI
	IC7036	M51132L	INTEGRATED CIRCUI
	IC7037	AN6554	LINEAR IC
	IC7038	AN6554	LINEAR IC
	IC7039	AN6554	LINEAR IC
	IC7040	AN6554	LINEAR IC
	IC7041	TL084CN	IC
	IC7042	UPC4558C	IC
	IC7043	TC4053BP	MOS DEGITAL IC
	IC7044	TC4053BP	MOS DEGITAL IC
	IC7045	TC4053BP	MOS DEGITAL IC
	IC7101	STK4112MK2	LINEAR IC
	IC7102	STK4112MK2	LINEAR IC
	IC7103	STK4112MK2	LINEAR IC
	IC7104	STK4112MK2	LINEAR IC

	Ref.No.	Part No.	Description
	IC8003	AN7818	LINEAR IC
	IC8004	AN7918T	LINEAR IC
	IC8101	STK4275	LINEAR IC
⚠	IC9401	AN5905	LINEAR IC
⚠	IC9501	AN5905	LINEAR IC
⚠	IC9601	AN5905	LINEAR IC
	IC9751	AN78L06	LINEAR IC

TRANSISTORS

	Q1001	UN7231	TRANSISTOR
	Q1057	2SC1685-Q	TRANSISTOR
	Q1111	2SC1685-Q	TRANSISTOR
	Q1121	2SC1685-Q	TRANSISTOR
	Q2001	2SC4158	TRANSISTOR
	Q2002	2SC3526H	TRANSISTOR
	Q2003	2SC3503	TRANSISTOR
	Q2004	2SA1381	TRANSISTOR
	Q2101	2SC4158	TRANSISTOR
	Q2102	2SC3526H	TRANSISTOR
	Q2103	2SC3503	TRANSISTOR
	Q2104	2SA1381	TRANSISTOR
	Q2201	2SC4158	TRANSISTOR
	Q2202	2SC3526H	TRANSISTOR
	Q2203	2SC3503	TRANSISTOR
	Q2204	2SA1381	TRANSISTOR
	Q3301	2SC2295-B	TRANSISTOR
	Q3302	2SC2295-B	TRANSISTOR
	Q3303	2SA1022-B	TRANSISTOR
	Q3304	2SC2295-B	TRANSISTOR
	Q3305	2SC2295-B	TRANSISTOR
	Q3306	UN2216	TRANSISTOR
	Q3307	2SA1022-B	TRANSISTOR
	Q3308	2SC2295-B	TRANSISTOR
	Q3309	2SC2188	TRANSISTOR
	Q3310	2SA1005	TRANSISTOR
	Q3311	2SA1005	TRANSISTOR
	Q3312	2SC3526H	TRANSISTOR
	Q3313	2SC2295-B	TRANSISTOR
	Q3314	2SC2295-B	TRANSISTOR
	Q3315	2SC2295-B	TRANSISTOR
	Q3316	2SC2295-B	TRANSISTOR
	Q3317	UN2216	TRANSISTOR
	Q3321	2SC2295-B	TRANSISTOR
	Q3322	2SC2295-B	TRANSISTOR
	Q3323	2SA1022-B	TRANSISTOR
	Q3324	2SC2295-B	TRANSISTOR
	Q3325	2SC2295-B	TRANSISTOR
	Q3326	UN2216	TRANSISTOR
	Q3327	2SA1022-B	TRANSISTOR
	Q3328	2SC2295-B	TRANSISTOR
	Q3329	2SC2188	TRANSISTOR
	Q3330	2SA1005	TRANSISTOR
	Q3331	2SA1005	TRANSISTOR
	Q3332	2SC3526H	TRANSISTOR
	Q3333	2SC2295-B	TRANSISTOR
	Q3337	UN2216	TRANSISTOR
	Q3341	2SC2295-B	TRANSISTOR

Ref.No.	Part No.	Description
Q3342	2SC2295-B	TRANSISTOR
Q3343	2SA1022-B	TRANSISTOR
Q3344	2SC2295-B	TRANSISTOR
Q3345	2SC2295-B	TRANSISTOR
Q3346	UN2216	TRANSISTOR
Q3347	2SA1022-B	TRANSISTOR
Q3348	2SC2295-B	TRANSISTOR
Q3349	2SC2188	TRANSISTOR
Q3350	2SA1005	TRANSISTOR
Q3351	2SA1005	TRANSISTOR
Q3352	2SC3526H	TRANSISTOR
Q3353	2SC2295-B	TRANSISTOR
Q3354	2SC2295-B	TRANSISTOR
Q3355	2SC2295-B	TRANSISTOR
Q3356	2SC2295-B	TRANSISTOR
Q3357	UN2216	TRANSISTOR
Q3361	2SC1685-Q	TRANSISTOR
Q3362	UN2212	TRANSISTOR
Q3363	UN2212	TRANSISTOR
Q3364	UN2212	TRANSISTOR
Q3365	UN2212	TRANSISTOR
Q3366	2SD601A-R	TRANSISTOR
Q3367	2SD601A-R	TRANSISTOR
Q3369	UN2212	TRANSISTOR
Q3370	2SC2295-B	TRANSISTOR
Q3371	2SC2295-B	TRANSISTOR
Q3372	2SC2295-B	TRANSISTOR
Q3373	2SA1022-B	TRANSISTOR
Q3374	2SD601A-R	TRANSISTOR
Q3375	2SD601-R	TRANSISTOR
Q3501	2SB1011	TRANSISTOR
Q3502	2SD601-R	TRANSISTOR
Q3503	2SD601-R	TRANSISTOR
Q3504	2SD601-R	TRANSISTOR
Q3505	2SD601-R	TRANSISTOR
Q3506	2SD601-R	TRANSISTOR
Q3507	2SD601-R	TRANSISTOR
Q3551	2SD601-R	TRANSISTOR
Q3552	2SD601-R	TRANSISTOR
Q3553	2SD601-R	TRANSISTOR
Q3554	2SD601-R	TRANSISTOR
Q3555	2SD601-R	TRANSISTOR
Q3556	UN2212	TRANSISTOR
Q3557	UN2112	TRANSISTOR
Q3558	UN2212	TRANSISTOR
Q3559	2SD601-R	TRANSISTOR
Q3560	UN2212	TRANSISTOR
Q3561	UN2212	TRANSISTOR
Q3562	UN2112	TRANSISTOR
Q3563	UN2112	TRANSISTOR
Q3564	UN2112	TRANSISTOR
Q3565	UN2112	TRANSISTOR
Q3566	UN2212	TRANSISTOR
Q3567	UN2112	TRANSISTOR
Q3568	UN2112	TRANSISTOR
Q3569	UN2112	TRANSISTOR
Q3571	UN2212	TRANSISTOR
Q3572	UN2212	TRANSISTOR
Q3573	UN2212	TRANSISTOR
Q3574	2SD601-R	TRANSISTOR
Q3575	2SD601-R	TRANSISTOR
Q3576	UN2112	TRANSISTOR
Q3577	UN2112	TRANSISTOR
Q3578	2SD601-R	TRANSISTOR
Q3579	2SA1022-B	TRANSISTOR
Q3580	2SD601-R	TRANSISTOR
Q4001	2SD601A	TRANSISTOR
Q4002	2SD601A	TRANSISTOR
Q4003	2SD601A	TRANSISTOR
Q4004	2SB709A	TRANSISTOR
Q4005	2SD601A	TRANSISTOR
Q4006	2SD601A	TRANSISTOR
Q4007	2SB709A	TRANSISTOR
Q4008	2SB709A	TRANSISTOR
Q4009	2SD601A	TRANSISTOR
Q4010	2SD601A	TRANSISTOR
Q4011	2SD601A	TRANSISTOR
Q4101	2SD601A	TRANSISTOR
Q4102	2SD601A	TRANSISTOR
Q4103	2SD601A	TRANSISTOR
Q4104	2SD601A	TRANSISTOR
Q4105	2SD601A	TRANSISTOR
Q4106	2SB709A	TRANSISTOR
Q4107	2SD601A	TRANSISTOR
Q4108	2SD601A	TRANSISTOR
Q4109	2SD601A	TRANSISTOR
Q4110	2SB709A	TRANSISTOR
Q4111	2SB709A	TRANSISTOR
Q4112	UN2212	TRANSISTOR
Q4304	2SD601A	TRANSISTOR
Q4305	2SB709A	TRANSISTOR
Q4306	2SD601A	TRANSISTOR
Q4307	UN2212	TRANSISTOR
Q4308	UN2212	TRANSISTOR
Q4401	2SD601A	TRANSISTOR
Q4402	2SB709A	TRANSISTOR
Q4403	2SD601A	TRANSISTOR
Q4404	2SD601A	TRANSISTOR
Q4405	2SD601A	TRANSISTOR
Q4406	2SD601A	TRANSISTOR
Q4407	2SB709A	TRANSISTOR
Q4601	2SD601A	TRANSISTOR
Q4641	2SD601A	TRANSISTOR
Q4751	2SD601A	TRANSISTOR
Q4752	2SD601A	TRANSISTOR
Q4753	2SD601A	TRANSISTOR
Q4754	2SD601A	TRANSISTOR
Q4755	2SD601A	TRANSISTOR
Q4756	2SB709A	TRANSISTOR
Q4757	2SB709A	TRANSISTOR
Q4801	2SD601A	TRANSISTOR
Q4802	2SD601A	TRANSISTOR
Q4803	2SB709A	TRANSISTOR
Q4804	2SB709A	TRANSISTOR
Q4805	2SD601A	TRANSISTOR
Q4871	2SB709-R	TRANSISTOR

Ref.No.	Part No.	Description
Q4872	2SD601-R	TRANSISTOR
Q4881	2SB709-R	TRANSISTOR
Q4882	2SD601-R	TRANSISTOR
Q4891	2SB709-R	TRANSISTOR
Q4892	2SD601-R	TRANSISTOR
Q5001	2SD601-R	TRANSISTOR
Q5002	2SB709-R	TRANSISTOR
Q5003	2SD601-R	TRANSISTOR
Q5004	UN2212	TRANSISTOR
Q5005	2SD601-R	TRANSISTOR
Q5006	2SD601-R	TRANSISTOR
Q5007	UN2214	TRANSISTOR
Q5008	UN2214	TRANSISTOR
Q5009	UN2212	TRANSISTOR
Q5010	UN2212	TRANSISTOR
Q5011	2SD601-R	TRANSISTOR
Q5012	UN2212	TRANSISTOR
Q5013	2SD601-R	TRANSISTOR
Q5014	2SD601-R	TRANSISTOR
Q5018	2SC1318-R	TRANSISTOR
Q5019	2SC1913A	TRANSISTOR
Q5020	2SC4096LB-TV	TRANSISTOR
Q5021	UN2216	TRANSISTOR
Q5022	2SC2085	TRANSISTOR
Q5023	2SC1573-Q	TRANSISTOR
Q5024	2SD1264	TRANSISTOR
Q5025	2SC2085	TRANSISTOR
Q5026	UN2212	TRANSISTOR
Q5027	2SD601-R	TRANSISTOR
Q5028	2SD601-R	TRANSISTOR
Q5029	2SD1894	TRANSISTOR
Q5030	2SB1254	TRANSISTOR
Q5031	2SD601A-R	TRANSISTOR
Q5032	2SD601A-R	TRANSISTOR
Q5033	2SD601A-R	TRANSISTOR
Q5034	2SD601-R	TRANSISTOR
Q5035	2SD601-R	TRANSISTOR
Q5036	2SB709-R	TRANSISTOR
Q5037	2SD601A-R	TRANSISTOR
Q5038	2SD601-R	TRANSISTOR
Q5039	2SB709-R	TRANSISTOR
Q5040	2SC2925	TRANSISTOR
Q5041	2SC2660A	TRANSISTOR
Q5042	UN2212	TRANSISTOR
Q5043	UN2212	TRANSISTOR
Q5501	2SD601-R	TRANSISTOR
Q5502	2SD601-R	TRANSISTOR
Q5503	UN2216	TRANSISTOR
Q5504	2SD601-R	TRANSISTOR
Q5505	UN2216	TRANSISTOR
Q5506	UN2112	TRANSISTOR
Q5507	UN2112	TRANSISTOR
Q5508	UN2112	TRANSISTOR
Q5509	UN2212	TRANSISTOR
Q5510	UN2212	TRANSISTOR
Q5511	UN2212	TRANSISTOR
Q5511	2SC2458A	TRANSISTOR
Q5512	UN2212	TRANSISTOR
Q5512	2SC2458A	TRANSISTOR
Q5513	2SC2458A	TRANSISTOR
Q5514	2SD601-R	TRANSISTOR
Q5514	2SK301-R	TRANSISTOR
Q5515	2SC1573-R	TRANSISTOR
Q5517	2SC1505	TRANSISTOR
Q5518	2SC2168F	TRANSISTOR
Q5519	2SA958F	TRANSISTOR
Q5519	2SA958FY	TRANSISTOR
Q5522	2SD601-R	TRANSISTOR
Q5523	2SK301-R	TRANSISTOR
Q5524	2SD601-R	TRANSISTOR
Q5526	2SD601-R	TRANSISTOR
Q6001	2SC1318-R	TRANSISTOR
Q6002	2SC3944	TRANSISTOR
⚠ Q6003	2SD601-R	TRANSISTOR
⚠ Q6004	2SB709-R	TRANSISTOR
⚠ Q6005	2SD601-R	TRANSISTOR
Q6006	2SD601A-R	TRANSISTOR
Q6007	2SD601A-R	TRANSISTOR
Q6008	2SD1273	TRANSISTOR
Q6010	2SD601-R	TRANSISTOR
Q6011	2SB709-R	TRANSISTOR
Q6014	2SC1573-Q	TRANSISTOR
Q6015	2SC1573-Q	TRANSISTOR
⚠ Q6016	2SC2085	TRANSISTOR
Q6017	2SC4096LB-TV	TRANSISTOR
⚠ Q6018	2SC2834AM	TRANSISTOR
⚠ Q6019	2SC2834AM	TRANSISTOR
Q6021	2SD601-R	TRANSISTOR
Q6022	2SD601-R	TRANSISTOR
Q6023	2SD601-R	TRANSISTOR
Q6027	2SC1573-Q	TRANSISTOR
Q6028	2SC1573-Q	TRANSISTOR
⚠ Q6029	2SB709-R	TRANSISTOR
⚠ Q6030	2SD601-R	TRANSISTOR
⚠ Q6031	2SB709-R	TRANSISTOR
Q6035	2SC1573-R	TRANSISTOR
Q6039	UN2212	TRANSISTOR
⚠ Q6040	2SD1457A	TRANSISTOR
Q6041	2SC1573-R	TRANSISTOR
Q6042	2SB709-R	TRANSISTOR
Q6044	UN2216	TRANSISTOR
Q6045	2SB709-R	TRANSISTOR
Q6046	UN2216	TRANSISTOR
Q6047	2SD601-R	TRANSISTOR
Q6048	2SD601A-R	TRANSISTOR
Q6049	2SD601-R	TRANSISTOR
Q6050	2SD601-R	TRANSISTOR
Q6051	2SD601-R	TRANSISTOR
Q6052	2SD601-R	TRANSISTOR
Q6053	UN2212	TRANSISTOR
Q6054	UN2212	TRANSISTOR
Q6055	UN2212	TRANSISTOR
Q6056	UN2212	TRANSISTOR
Q6057	2SA879	TRANSISTOR
Q6058	2SC1573-Q	TRANSISTOR
⚠ Q6061	2SA879	TRANSISTOR
Q7005	UN2212	TRANSISTOR
Q7006	UN2212	TRANSISTOR

Ref.No.	Part No.	Description
Q7007	2SC1685-Q	TRANSISTOR
Q7008	2SC1685-Q	TRANSISTOR
Q7009	2SC1685-Q	TRANSISTOR
Q7011	2SD601A-R	TRANSISTOR
Q7065	2SD601A-R	TRANSISTOR
Q7066	2SB709A-R	TRANSISTOR
Q7067	2SD601A-R	TRANSISTOR
Q7100	2SD601A-R	TRANSISTOR
Q7101	2SD601A-R	TRANSISTOR
Q7102	2SK301-R	TRANSISTOR
Q7103	2SD601A-R	TRANSISTOR
Q7104	2SK301-R	TRANSISTOR
Q7105	2SD601A-R	TRANSISTOR
Q7106	2SK301-R	TRANSISTOR
Q7107	2SD601A-R	TRANSISTOR
Q7108	2SK301-R	TRANSISTOR
Q7201	2SD601A-R	TRANSISTOR
Q7202	2SK301-R	TRANSISTOR
Q7203	2SD601A-R	TRANSISTOR
Q7204	2SK301-R	TRANSISTOR
Q7251	2SD601A-R	TRANSISTOR
Q7252	2SK301-R	TRANSISTOR
Q7253	2SD601A-R	TRANSISTOR
Q7254	2SK301-R	TRANSISTOR
Q7301	2SD601A-R	TRANSISTOR
Q7302	2SB709A-R	TRANSISTOR
Q7307	2SD601A-R	TRANSISTOR
Q7308	2SB709A-R	TRANSISTOR
Q7309	2SD601A-R	TRANSISTOR
Q7310	2SB709A-R	TRANSISTOR
Q7311	2SD601A-R	TRANSISTOR
Q7312	2SB709A-R	TRANSISTOR
Q7313	2SD601A-R	TRANSISTOR
Q7314	2SB709A-R	TRANSISTOR
Q7315	2SD601A-R	TRANSISTOR
Q7317	2SD601A-R	TRANSISTOR
Q7318	2SB709A-R	TRANSISTOR
Q7319	2SD601A-R	TRANSISTOR
Q7320	2SB709A-R	TRANSISTOR
Q7321	2SD601A-R	TRANSISTOR
Q7322	2SB709A-R	TRANSISTOR
Q7323	2SD601A-R	TRANSISTOR
Q7324	2SB709A-R	TRANSISTOR
Q8001	2SD601A-Q	TRANSISTOR
Q8002	2SB709A-R	TRANSISTOR
Q8003	2SD601A-Q	TRANSISTOR
Q8004	2SD601A-Q	TRANSISTOR
Q8005	2SD601A-Q	TRANSISTOR
Q8006	2SC3403	TRANSISTOR
Q8007	2SD601-R	TRANSISTOR
Q9051	2SC4004	TRANSISTOR
Q9052	2SD965	TRANSISTOR
Q9053	2SA564A-R	TRANSISTOR
Q9054	UN1112	TRANSISTOR
Q9055	2SA564A-R	TRANSISTOR
Q9056	2SC1685-Q	TRANSISTOR
Q9057	2SC1685-Q	TRANSISTOR
Q9058	2SC1685-Q	TRANSISTOR
Q9059	2SC1685-Q	TRANSISTOR
Q9060	2SA564A-R	TRANSISTOR
Q9101	2SC3982	TRANSISTOR
Q9102	2SD1539	TRANSISTOR
Q9103	2SB1071	TRANSISTOR
Q9151	2SC2458A	TRANSISTOR
Q9201	2SC3982	TRANSISTOR
Q9202	2SD1539	TRANSISTOR
Q9203	2SB1071	TRANSISTOR
Q9204	UN1212	TRANSISTOR
Q9251	2SC2458A	TRANSISTOR
Q9252	UN1212	TRANSISTOR
Q9301	2SC3982	TRANSISTOR
Q9302	2SD1539	TRANSISTOR
Q9303	2SB1071	TRANSISTOR
Q9351	2SC2458A	TRANSISTOR
Q9401	2SD601A-Q	TRANSISTOR
Q9402	2SB709A-R	TRANSISTOR
Q9403	2SD601A-Q	TRANSISTOR
Q9404	2SD601A-Q	TRANSISTOR
Q9405	2SD601A-Q	TRANSISTOR
Q9501	2SD601A-Q	TRANSISTOR
Q9502	2SB709A-R	TRANSISTOR
Q9503	2SD601A-Q	TRANSISTOR
Q9504	2SD601A-Q	TRANSISTOR
Q9505	2SD601A-Q	TRANSISTOR
Q9601	2SD601A-Q	TRANSISTOR
Q9602	2SB709A-R	TRANSISTOR
Q9603	2SD601A-Q	TRANSISTOR
Q9604	2SD601A-Q	TRANSISTOR
Q9605	2SD601A-Q	TRANSISTOR
Q9701	2SC1685-Q	TRANSISTOR
Q9702	2SC1685-Q	TRANSISTOR
Q9703	2SA564A-R	TRANSISTOR
Q9704	2SC1685-Q	TRANSISTOR
Q9705	2SC1685-Q	TRANSISTOR
Q9706	UN1211	TRANSISTOR
Q9751	UN1211	TRANSISTOR
Q9752	2SA720-Q	TRANSISTOR

CABINET & MAIN PARTS

M1	EAS8P141A	SPEAKER
G1	EUR50650	REMOTE CONTROL T
M2	TBM130767	MODEL NAME PLATE (PT-B1010E)
M2	TBM130769	MODEL NAME PLATE (PT-B1010EF)
M3	TBM17036-1	ALUMI PLATE
M4	TBX1550302	KNOB (POWER)
M5	TEK13609	FAN
M6	TEK17911	SWITCH
G2	TES202	SPRING
M7	TES4146	SPRING
M8	TES4149	SPRING
G3	TES4537	SPRING
M9	TES4582	SPRING
M10	TES4583	SPRING

	Ref.No.	Part No.	Description
	G4	TES6183	SPRING
	M11	TES7151	SPRING
	G5	THE600	BOLT
	M12	TEH757	BOLT
	G6	THE824	SCREW
	G7	THE869	SCREW
	G8	THE870Z	SCREW
	M13	THE888	SCREW
	M14	THE917	SCREW
	G9	THN3086	NUT
	G10	THW70023W	WASHER
	G11	THW70038	WASHER
	M15	THW70047W	WASHER
	M60	TJC6137	EARTH LUG
	G12	TJS1A4330	BNC CONNECTOR
	G13	TJS1A4340	BNC CONNECTOR
	G14	TJS1A5250	CRT SOCKET
	M16	TJS1A8220	25P CONNECTOR
	G15	TJS118590	2P CONNECTOR
	M17	TJS2A9020	AC CONNECTOR
	G16	TJS5A8070	S TERMINAL
	G17	TJS5A8500	JACK
	G18	TJS5A9250	PHONO PIN
	M18	TKK130725	LENS CAP
	G19	TKK139486	BUSHU
	M19	TKN13513	NET (Outside)
	G20	TKN13703	NET (Inside)
	M20	TKP1312901-2	DOOR
	M21	TKR23420	FIXING METAL
	M22	TKR23450	METAL FLAME
	G20	TKR23520	COLLAR
	M23	TKR53180	METAL FLAME (R)
	M24	TKR53190	METAL FLAME (L)
	G21	TKR53200	PLATE
	M25	TKR53510	FAN GARD
	M26	TKS13330	COVER
	M27	TKX134706-3	FRONT PANEL
⚠	M28	TLY15269D2	DEFLECTION YOKE (R)
⚠	M29	TLY15270D	DEFLECTION YOKE (G)
⚠	M30	TLY15271D	DEFLECTION YOKE (B)
	G22	TMM13202	FOCUS LING
	G23	TMM17205-1	CRAMPER
	G24	TMM17698	LAMP HOLDER
	G25	TMM3565	RUBBER CAP
	M31	TMW13714	BRACKET
	M32	TMX13413	SPACER
	M33	TMX13417	SUPPORT
	G26	TNQ2665	REMOTE CONTROL R
	M34	TNX13013-1	H.V. DISTRIBUTOR
	M35	TNX13024	SCREEN CONTROL
	G27	TNX19032-R	REMOTE CONTROL BO
	G28	TPC1342107	CARTON
	G29	TPD131105	CUSHION (UPPER)

	Ref.No.	Part No.	Description
	G30	TPD131106	CUSHION (UPPER)
	G31	TPD132105	CUSHION (BOTTOM)
	G32	TPD132106	CUSHION (BOTTOM)
	G33	TPD139258	CARTON
	G34	TPD139259	SEET
	G35	TPD139298	SIDE CUSHION
	G36	TPD139350	CUSHION
	G37	TPE114100	SEET
	G38	TQB510164	OPERATING INSTRUCTIONS
	G39	TQB510165	INSTALLATION INSTRUCTIONS
	M35-1	TSM10014	ALIGNMENT MAGNET
	M36	TSM10021-1	FOCUS MAGNET R
	M37	TSM10022-1	FOCUS MAGNET G
	M38	TSM10023-1	FOCUS MAGNET B
⚠	M39	TSX1433	AC POWER CORD
⚠	M40	TSX3105	AC POWER CORD (U.K. only)
	G41	TSX3299	REMOCOL CABLE
	M41	TSX5201	CONVERSION ADAPTOR (W/SCREW)
	M42	TSX5201-1	CONVERSION ADAPTOR (W/O SCREW)
	M43	TXAMZ01KSZ	CONTROL BASE (R)
	M44	TXAMZ02KSZ	CONTROL BASE (L)
⚠	M45	TXFCRTBKSZ	PICTURE TUBE (B) (PT-B1010E)
⚠	M46	TXFCRTGKSZ	PICTURE TUBE (G) (PT-B1010E)
⚠	M47	TXFCRTRKSZ	PICTURE TUBE (R) (PT-B1010E)
⚠	M45	TXFCRTBKTZ	PICTURE TUBE (B) (PT-B1010EF)
⚠	M46	TXFCRTGKTZ	PICTURE TUBE (G) (PT-B1010EF)
⚠	M47	TXFCRTRKTZ	PICTURE TUBE (R) (PT-B1010EF)
	M48	TXFKG1BDD4	LENS (B)
	M49	TXFKG1GDD4	LENS (G)
	M50	TXFKG1RDD4	LENS (R)
	M51	TXFKY02KSZ	BOTTOM CABINET
	M52	TXFKY03IKZ	TOP COVER
	G42	TXFZAC0300	HIGH BOLT LEED
	M53	TXF3F01BE6	ANOODE LEED (R, G)
	M54	TXF3F02BE6	ANOODE LEED (B)
	G43	UR50EC808	BATTERY COVER
	G44	VJF0022	CLAMPER
	G45	XNG10B	NUT
	G60	XSN2+15FZ	SCREW
	G61	XXET699Z	SCREW
	G46	XSN23+14	
	G47	XSN25+6FZ	SCREW
	G48	XST4+8FZ	SCREW
	G49	XTN2+6A	SCREW
	G50	XTV3+12JFZ	SCREW
	M55	XTV3+6J	SCREW
	M56	XTV3+8J	SCREW
	M57	XTW3+6T	TAPPING SCREW
	M58	XTW3+8T	SCREW
	G51	XWB10B	WASHER
	G52	XWH10	WASHER

Ref.No.	Part No.	Description
G53	XYN5+E12S	SCREW
M59	XYN4+F12	SCREW
G54	XZBT6506	POLY BAG
G55	XZB10X10C03	POLY BAG
G56	XZB13X18C03	POLY BAG
G57	XZB30X60C03	POLY BAG
G58	XZB6X70C03	POLY BAG
G59	THW70031Z	WASHER
B1	TJS118670	PHONO PIN
B2	TJS118670	PHONO PIN
B3	TJS118630	6P CONNECTOR
B4	TJS118650	PHONO PIN
B5	TJS118670	PHONO PIN
B6	TJS118610	4P CONNECTOR
B7	TJS118630	6P CONNECTOR
B8	TJS118640	PHONO PIN
B9	TJS118610	4P CONNECTOR
B10	TJS118610	4P CONNECTOR
B11	TJS118630	6P CONNECTOR
B12	TJS118600	3P CONNECTOR
B13	TJS118600	3P CONNECTOR
B14	TJS118610	4P CONNECTOR
B15	TJS118610	4P CONNECTOR
BF7	TJS118640	PHONO PIN
BF8	TJS118610	4P CONNECTOR
BF10	TJS118610	4P CONNECTOR
BF11	TJS118690	PHONO PIN
C1	TJS118650	PHONO PIN
C2	TJS118640	PHONO PIN
C3	TJS118660	9P CONNECTOR
C4	TJS118620	5P CONNECTOR
C5	TJS118600	3P CONNECTOR
C6	TJS118630	6P CONNECTOR
C7	TJS118610	4P CONNECTOR
C8	TJS118640	PHONO PIN
C9	TJS118610	4P CONNECTOR
C06	TJS118690	PHONO PIN
C10	TJS118630	6P CONNECTOR
C11	TJS118650	PHONO PIN
C12	TJS118640	PHONO PIN
C13	TJS118610	4P CONNECTOR
C14	TJS169010	CONNECTOR
C15	TJS168980	4P CONNECTOR
C16	TJS169010	CONNECTOR
C17	TJS5A8690	15P CONNECTOR
C18	TJS5A8690	15P CONNECTOR
C19	TJS5A8690	15P CONNECTOR
C20	TJS5A8690	15P CONNECTOR
C21	TJS118650	PHONO PIN
C01	TJS5A8690	15P CONNECTOR
C02	TJS118650	PHONO PIN
C03	TJS5A8690	15P CONNECTOR
C04	TJS5A8690	15P CONNECTOR
C05	TJS118640	PHONO PIN
D8	TJS118630	6P CONNECTOR
D14	TJS118640	PHONO PIN
D15	TJS118620	5P CONNECTOR
D16	TJS118640	PHONO PIN
D17	TJS118650	PHONO PIN
D18	TJS118640	PHONO PIN
D19	TJS118650	PHONO PIN
D20	TJS118640	PHONO PIN
D21	TJS118630	6P CONNECTOR
D22	TJS118610	4P CONNECTOR
D31	TJS118630	6P CONNECTOR
D32	TJS118630	6P CONNECTOR
E7	TJS118620	5P CONNECTOR
E8	TJS118650	PHONO PIN
E9	TJS118590	2P CONNECTOR
F1	TJS118600	3P CONNECTOR
F2	TJS118600	3P CONNECTOR
F3	TJS118600	3P CONNECTOR
F4	TJS118600	3P CONNECTOR
F5	TJS118600	3P CONNECTOR
F6	TJS118600	3P CONNECTOR
F9	TJS118590	2P CONNECTOR
K5	TJS118610	4P CONNECTOR
K6	TJS118600	3P CONNECTOR
K7	TJS118600	3P CONNECTOR
K8	TJS118590	2P CONNECTOR
K9	TJS118590	2P CONNECTOR
K10	TJS118600	3P CONNECTOR
L4	TJS118600	3P CONNECTOR
L5	TJS118610	4P CONNECTOR
LB1	TJS118630	6P CONNECTOR
LB2	TJS118600	3P CONNECTOR
LB3	TJS118610	4P CONNECTOR
LG1	TJS118600	3P CONNECTOR
LG2	TJS118600	3P CONNECTOR
LG3	TJS118610	4P CONNECTOR
LR1	TJS118600	3P CONNECTOR
LR2	TJS118600	3P CONNECTOR
LR3	TJS118610	4P CONNECTOR
P27	TJS118610	4P CONNECTOR
Q5	TJS118610	4P CONNECTOR
Q6	TJS118600	3P CONNECTOR
S1	TJS1A8100	PHONO PIN (4P)
T1	TJS118600	3P CONNECTOR
T2	TJS118600	3P CONNECTOR
A1	TJS118590	2P CONNECTOR
A2	TJS118610	4P CONNECTOR
A4	TJS118640	PHONO PIN
A5	TJS118610	4P CONNECTOR
A6	TJS118670	PHONO PIN
A7	TJS118670	PHONO PIN
⚠ F9001A	TJC6320	FUSE HOLDER,SMALL
⚠ F9001B	TJC6320	FUSE HOLDER,SMALL
⚠ F9001	XBA2C40TRO	FUSE 250V 4A
I1	TJS1A8090	PHONO PIN (3P)
LP7001	XAMT354	NEON LAMP
⚠ N6001	XANT343	NEON LAMP
NLA	TNP101682BZ	CIRCUIT BOARD B
NLA	TNP101683	CIRCUIT BORAD D1

Ref.No.	Part No.	Description
NLA	TNP101684	CIRCUIT BOARD C1
NLA	TNP101687	CIRCUIT BOARD W
NLA	TNP101688	CIRCUIT BOARD E1
NLA	TNP101689ZA	CIRCUIT BOARD E2
NLA	TNP101690ZA	CIRCUIT BOARD D2
NLA	TNP101691	CIRCUIT BOARD P1
NLA	TNP101692	CIRCUIT BOARD P2
NLA	TNP101693	CIRCUIT BOARD P3
NLA	TNP101694	CIRCUIT BOARD A
NLA	TNP101695	CIRCUIT BOARD L
NLA	TNP101696AA	CIRCUIT BOARD LR
NLA	TNP101697AA	CIRCUIT BOARD LG
NLA	TNP101698AA	CIRCUIT BOARD LB
NLA	TNP101699	CIRCUIT BOARD V
NLA	TNP101700	CIRCUIT BOARD S
NLA	TNP101701	CIRCUIT BOARD I
NLA	TNP101702	CIRCUIT BOARD C3
NLA	TNP101703	CIRCUIT BOARD C4
NLA	TNP101704	CIRCUIT BOARD C5
NLA	TNP101705ZA	CIRCUIT BOARD EO
NLA	TNP101706ZA	CIRCUIT BOARD HO
NLA	TNP101707ZA	CIRCUIT BOARD ER1
NLA	TNP101708ZA	CIRCUIT BOARD DR1
NLA	TNP101709ZA	CIRCUIT BOARD DR2
NLA	TNP101710ZA	CIRCUIT BOARD TR1
NLA	TNP101711ZA	CIRCUIT BOARD TR2
NLA	TNP101712ZA	CIRCUIT BOARD R1
NLA	TNP101713	CIRCUIT BOARD P4
NLA	TNP101714	CIRCUIT BOARD P5
NLA	TNP101715	CIRCUIT BOARD P6
NLA	TNP101719ZA	CIRCUIT BOARD ER2
NLA	TNP101720BZ	CIRCUIT BOARD Q
NLA	TNP101729	CIRCUIT BOARD T1
NLA	TNP101878	CIRCUIT BOARD D3
NLA	TNP110591	CIRCUIT BOARD K
	TXANPC2DD4	CIRCUIT BOARD C2
P12	TJS5A8700	12P CONNECTOR
P13	TJS118600	3P CONNECTOR
P14	TJS118620	5P CONNECTOR
P16	TJS118610	4P CONNECTOR
P22	TJS5A8700	12P CONNECTOR
P23	TJS118620	5P CONNECTOR
P24	TJS118630	6P CONNECTOR
P25	TJS118610	4P CONNECTOR
P26	TJS118600	3P CONNECTOR
P27	TJS118650	PHONO PIN
P32	TJS5A8700	12P CONNECTOR
P33	TJS118620	5P CONNECTOR
P34	TJS118620	5P CONNECTOR
P35	TJS118610	4P CONNECTOR
P36	TJS118630	6P CONNECTOR
P37	TJS118610	4P CONNECTOR
P38	TJS118600	3P CONNECTOR
P41	TJS5A8710	12P CONNECTOR
P51	TJS5A8710	12P CONNECTOR
P61	TJS5A8710	12P CONNECTOR
PP	TJS118590	2P CONNECTOR

Ref.No.	Part No.	Description
RL3301	TSE1880	RELAY
RL3302	TSE1879	RELAY
RL5001	TSE1877	RELAY
RL5002	TSE1877	RELAY
⚠ RL6001	TSE1877	RELAY
RL6002	TSE1877	RELAY
RL8001	TSE1878	RELAY
RL8002	TSE1877	RELAY
RL8003	TSE1877	RELAY
⚠ RL9001	TSE1866	RELAY
S5501	TSE376	SWITCH
S7001	EVQQVH19K	SWITCH
S7002	EVQQVH19K	SWITCH
S7003	EVQQVH19K	SWITCH
S7004	EVQQVH19K	SWITCH
S7005	EVQQVH19K	SWITCH
S7006	EVQQVH19K	SWITCH
S7007	EVQQVH19K	SWITCH
S7008	EVQQVH19K	SWITCH
S7009	TSE649	SWITCH
⚠ S9091	ESB99582V	SWITCH
S9092	TSE1901	SWITCH
SW1001	ESE15321	SWITCH
SW1002	ESD1131255	SWITCH
SW3501	TSE392	SWITCH
V1	TJS1A8100	PHONO PIN (4P)
V2	TJS1A8160	PHONO PIN (10P)
W1	TJS118670	PHONO PIN
W2	TJS118650	PHONO PIN
X751	TAFCSB503F35	CERAMIC FILTER
X801	TSS116M1	CRYSTAL OSCILATOR
X802	TSS816M	CRYSTAL
X1001	CSB440JB6	CERAMIC OSC
S2001	TAG10002	SPARK GAP
S2101	TAG10002	SPARK GAP
S2201	TAG10002	SPARK GAP

00978

ORDER NO. VED9501199S2

Service Manual

Supplement-6

Colour Video Projector

PT-B1010E/EF

Chassis No. Q14

Subject : Measurements and adjustments modification

Please file and use this supplement manual together with the service manual for Model No. PT-B1010E/EF, Order No. VED9111081C2.

Replace " 5. Deflection Change " with following ones. (on page 45)

5. Deflection Change

A. How to change the projection mode from ceiling to floor use !

(1) Turn-off the main power switch of the set.

(2) Remove five screws witch fix the top cover of the set.

(3) Change the position of the D30 coupler from original setting to floor use mode (which is indicated by the dotted rectangle) on the D1 P.W.board.

(4) Change the position of the D1, D2 and D3 couplers from its original setting to floor use mode (which is indicated by the dotted rectangle) on the D1 P.W.board.

(5) Change the setting of the switch (S5501) on the D1 P.W.board from original one to floor use mode (which is indicated as F).

(6) Change the setting of the DIP switch (SW7721) on the C2 P.W.board from its original (No.3 is ON) to floor use mode (No.3 is OFF).

(7) Turn-on the main power and the remote switch of the set.

(8) Warm up the set about 30 minutes with the desired input signal connected.

(9) Reset all data for point convergence adjustment by following this procedure.

[Procedure for cancelling data of point convergence in the RAM]

(9-1) Push the TEST key (TEST mode : Crosshatch patten) on the remote-controller.

(9-2) Then push CURSOR key.

(9-3) Push the CURSOR CENTER key five times. It is marked by a "big dot ●".

(9-4) Finally, push the cursor direction key of which is below the center cursor key and marked as an " inverted triangle ▼ ".

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(10) Next, reset all data for the dynamic convergence adjustment by following this procedure.

[Procedure for cancelling data of dynamic convergence in the RAM]

(10-1) Push the TEST key (TEST mode : Crosshatch patten) on the remote-controller.

(10-2) Then push CURSOR key five times.

(10-3) Finally, push the cursor direction key of which is below the center cursor key and marked as an " inverted triangle ▼ ".

(11) Since green (G) is the reference colour for this set, dynamic convergence adjustment should be done with green (G) at first.

(12) Do adjustment for horizontal linearity and static convergence with a variable resistor R7306, in case it is necessary.

(13) After finishing these procedures, do adjustment for static convergence.

(14) Next, do the adjustment for dynamic convergence of red (R) to overlap on the green (G).

(15) If the dynamic convergence of red (R) is unable to overlap well on the green (G) as shown in Fig 1, do the adjustment for each variable resistor R7326 (R.V-BOW) and R7323 (R-TILT).

< R.V–BOW >

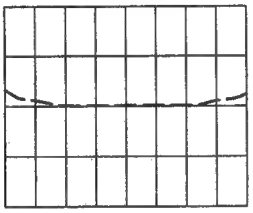
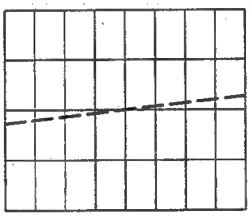


Fig. 1

< R–TILT >



(16) Finally, do the adjustment for dynamic convergence of blue (B) to overlap on the green (G).

(17) If the dynamic convergence of blue (B) is unable to overlap well on the green (G) as shown in Fig 2, do the adjustment for each variable resistor R7341 (B.V-BOW) and R7339 (B-TILT).

< B.V–BOW >

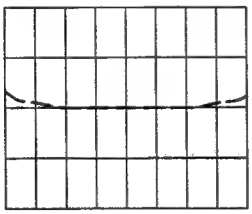
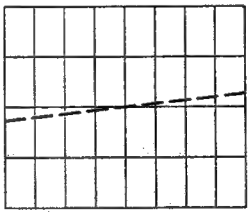


Fig. 2

< B–TILT >



(18) Do the adjustment for point convergence of red (R) to overlap well on the lines of green (G).

(19) Do the adjustment for point convergence of blue (B) to overlap well on the lines of green (G).

[Caution]

Adjustment for point convergence should be done in case there is difficulty correcting partial miss-overlapping of colours after finishing adjustment for dynamic convergence.

B. How to change the projection mode from floor to ceiling use !

(1) Turn-off the main power switch of the set.

(2) Remove five screws witch fix the top cover of the set.

(3) Change the position of the D30 coupler from original setting to ceiling use mode (which is indicated with a rectangle) on the D1 P.W.board.

(4) Change the position of the D1, D2 and D3 couplers from its original setting to ceiling use mode (which is indicated with a rectangle) on the D1 P.W.board.

(5) Change the setting of the switch (S5501) on the D1 P.W.board from original one to ceiling use mode (which is indicated as C).

(6) Change the setting of the DIP switch (SW7721) on the C2 P.W.board from its original (No.3 is OFF) to ceiling use mode (No.3 is ON).

(7) Turn-on the main power and the remote switch of the set.

(8) Warm up the set about 30 minutes with the desired input signal connected.

(9) Reset all data for point convergence adjustment by following this procedure.

[Procedure for cancelling data of point convergence in the RAM]

(9-1) Push the TEST key (TEST mode: Crosshatch patten) on the remote-controller.

(9-2) Then push CURSOR key.

(9-3) Push the CURSOR CENTER key five times. It is marked by a "big dot ●".

(9-4) Finally, push the cursor direction key which is below the center cursor key and marked as an "inverted triangle ▼".

(10) Next, reset all data for the dynamic convergence adjustment by following this procedure.

[Procedure for cancelling data of dynamic convergence in the RAM]

(10-1) Push the TEST key (TEST mode : Crosshatch patten) on the remote-controller.

(10-2) Then push CURSOR key five times..

(10-3) Finally, push the cursor direction key which is below the center cursor key and marked as an " inverted triangle ▼ ".

(11) Since green (G) is the reference colour for this set, dynamic convergence adjustment should be done with green (G) at first.

(12) Do adjustment for horizontal linearity and static convergence with a variable resistor R7306, in case it is necessary.

(13) After finishing these procedures, do adjustment for static convergence.

(14) Next, do the adjustment for dynamic convergence of red (R) to overlap on the green (G).

(15) If the dynamic convergence of red (R) is unable to overlap well on the green (G) as shown in following graphs, do the adjustment for each variable resistor R7326 (R.V-BOW) and R7323 (R-TILT).

(16) Finally, do the adjustment for dynamic convergence of blue (B) to overlap on the green (G).

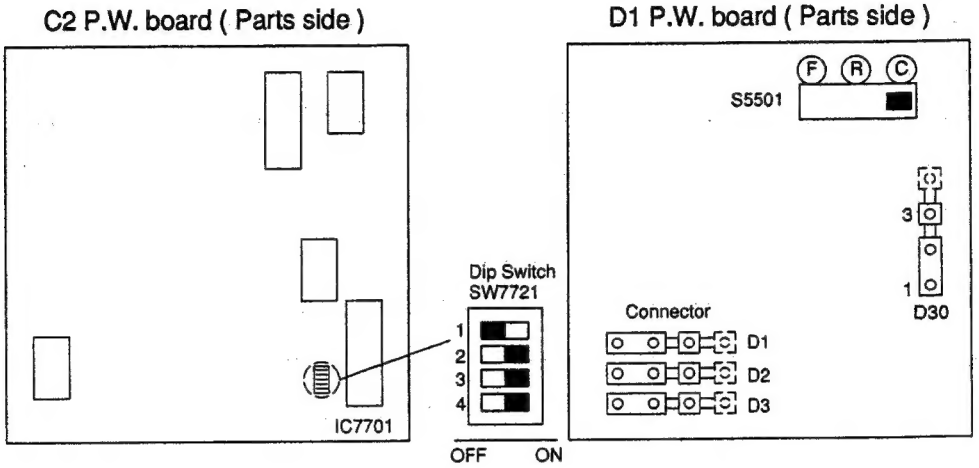
(17) If the dynamic convergence of blue (B) is unable to overlap well on the green (G) as shown in following graphs, do the adjustment for each variable resistor R7341 (B.V-BOW) and R7339 (B-TILT).

(18) Do the adjustment for point convergence of red (R) to overlap well on the lines of green (G).

(19) Do the adjustment for point convergence of blue (B) to overlap well on the lines of green (G).

[Caution]

Adjustment for point convergence should be done in case there is difficulty correcting partial miss-overlapping of colours after finishing adjustment for dynamic convergence.



Model Name	Projection Mode	Positioning			Positioning	
		Dip sw SW7721		Connector D1, D2, D3	Connector D30	Switch S5501
		No. 3	No. 4			
PT-B1010E	Front or Rear Ceiling with Mirror Reflective Screen / Mirror / Translucent Screen	ON	ON		White Yellow	
	Rear Ceiling Translucent Screen	ON	OFF	to be inserted reversely		
PT-B1010EF	Front or Rear Floor with Mirror Reflective Screen / Translucent Screen / Mirror	OFF	ON		Yellow White	
	Rear Floor Translucent Screen	OFF	OFF	to be inserted reversely		

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